

# Appendix B

## WCDMA Band II & IV & V



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# 1. Effective (Isotropic) Radiated Power

## 1.1. Test Result for Down Ant

| Band    | Channel | Conducted Power (dBm) | EIRP (dBm) | Limit(dBm) | Verdict |
|---------|---------|-----------------------|------------|------------|---------|
| Band II | 9262    | 23.70                 | 22.69      | 33.00      | PASS    |
| Band II | 9400    | 23.68                 | 22.67      | 33.00      | PASS    |
| Band II | 9538    | 23.71                 | 22.70      | 33.00      | PASS    |
| Band IV | 4132    | 23.64                 | 22.67      | 30.00      | PASS    |
| Band IV | 4182    | 23.55                 | 22.58      | 30.00      | PASS    |
| Band IV | 4233    | 23.65                 | 22.68      | 30.00      | PASS    |

| Band   | Channel | Conducted Power (dBm) | ERP (dBm) | Limit(dBm) | Verdict |
|--------|---------|-----------------------|-----------|------------|---------|
| Band V | 4132    | 22.96                 | 16.31     | 38.45      | PASS    |
| Band V | 4182    | 22.94                 | 16.29     | 38.45      | PASS    |
| Band V | 4233    | 22.96                 | 16.31     | 38.45      | PASS    |

## 1.2. Test Result for Up Ant

| Band    | Channel | Conducted Power (dBm) | EIRP (dBm) | Limit(dBm) | Verdict |
|---------|---------|-----------------------|------------|------------|---------|
| Band II | 9262    | 21.88                 | 20.15      | 33.00      | PASS    |
| Band II | 9400    | 21.82                 | 20.09      | 33.00      | PASS    |
| Band II | 9538    | 21.79                 | 20.06      | 33.00      | PASS    |
| Band IV | 4132    | 23.49                 | 21.91      | 30.00      | PASS    |
| Band IV | 4182    | 23.57                 | 21.99      | 30.00      | PASS    |
| Band IV | 4233    | 23.54                 | 21.96      | 30.00      | PASS    |

| Band   | Channel | Conducted Power (dBm) | ERP (dBm) | Limit(dBm) | Verdict |
|--------|---------|-----------------------|-----------|------------|---------|
| Band V | 4132    | 23.79                 | 17.04     | 38.45      | PASS    |
| Band V | 4182    | 23.82                 | 17.07     | 38.45      | PASS    |
| Band V | 4233    | 23.81                 | 17.06     | 38.45      | PASS    |

Remark:

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

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

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



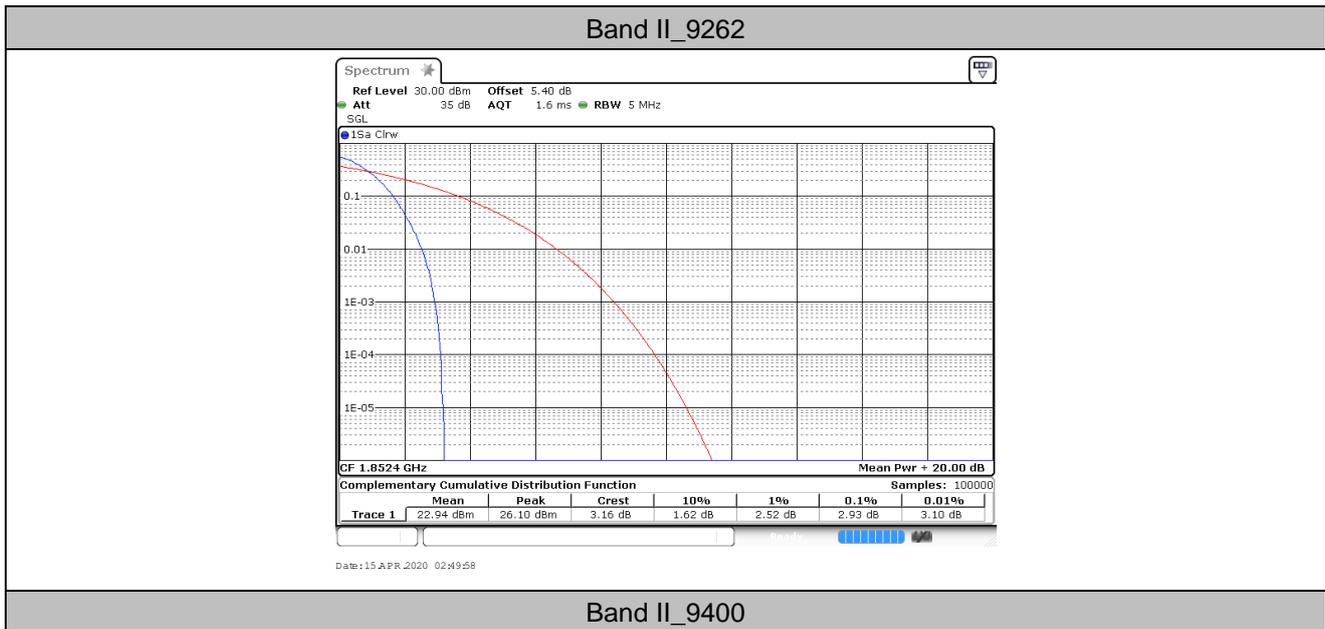
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## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

| Band    | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|---------|---------|---------------------------|-----------|---------|
| Band II | 9262    | 2.93                      | 13.00     | PASS    |
| Band II | 9400    | 2.93                      | 13.00     | PASS    |
| Band II | 9538    | 2.93                      | 13.00     | PASS    |
| Band IV | 1312    | 3.01                      | 13.00     | PASS    |
| Band IV | 1413    | 3.01                      | 13.00     | PASS    |
| Band IV | 1513    | 3.01                      | 13.00     | PASS    |
| Band V  | 4132    | 2.93                      | 13.00     | PASS    |
| Band V  | 4182    | 2.93                      | 13.00     | PASS    |
| Band V  | 4233    | 2.93                      | 13.00     | PASS    |

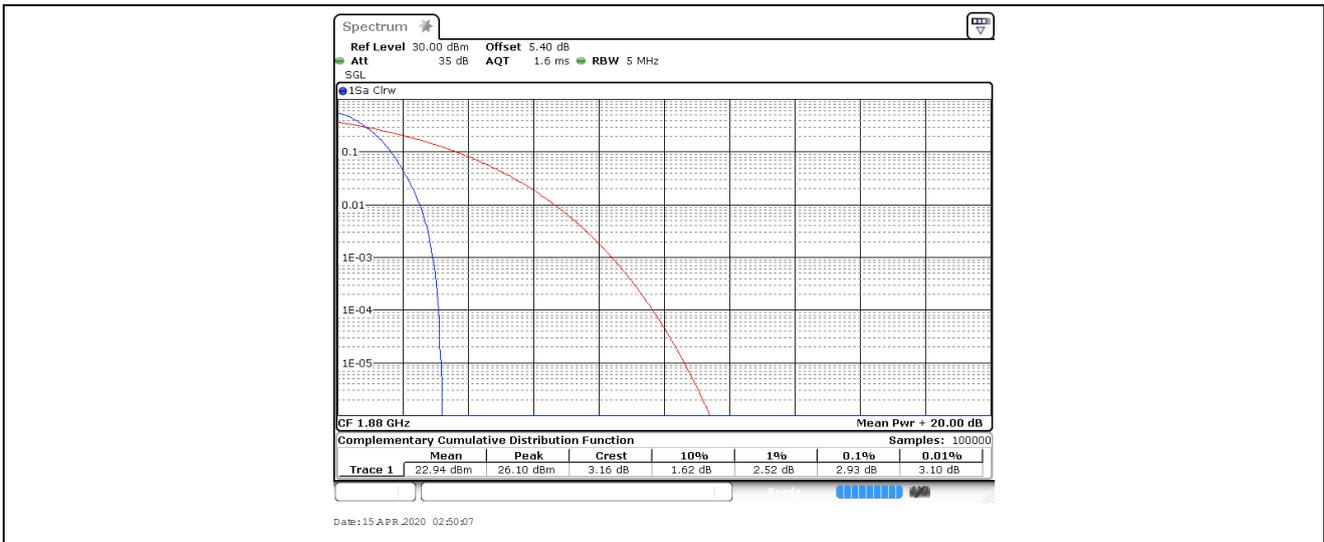
### 2.2. Test Plots



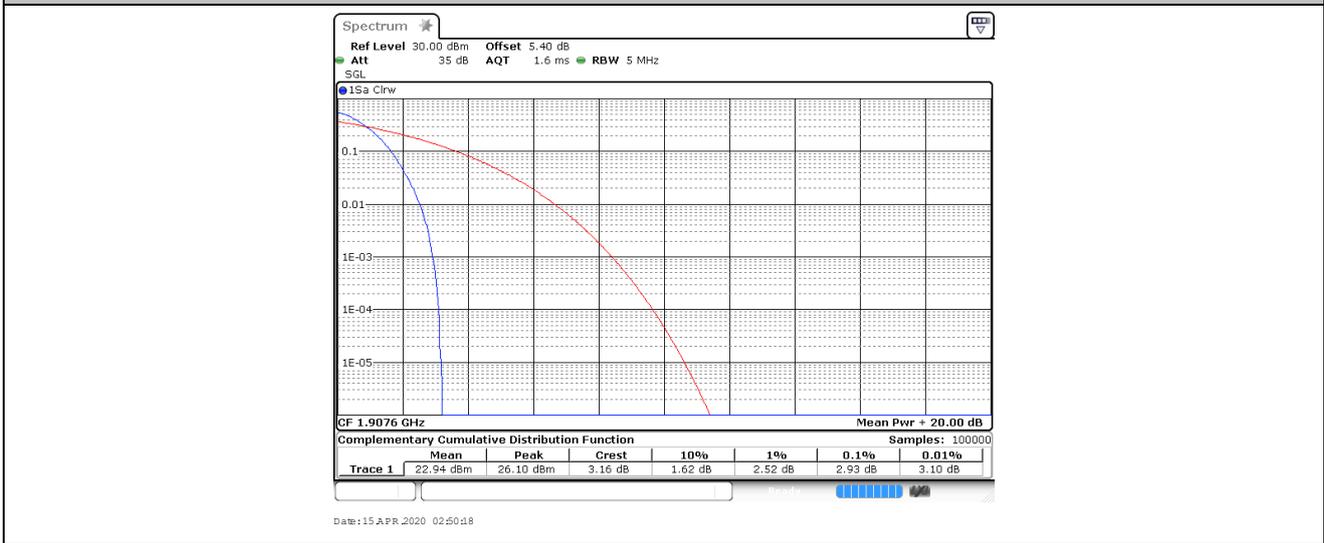
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**Band II\_9538**

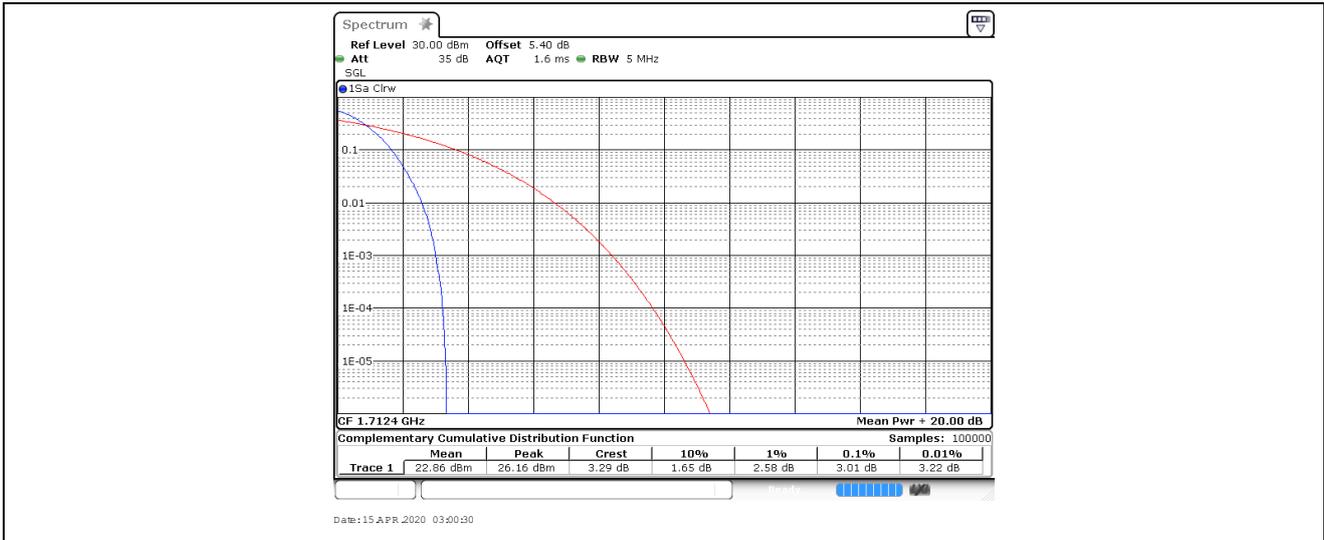


**Band IV\_1312**

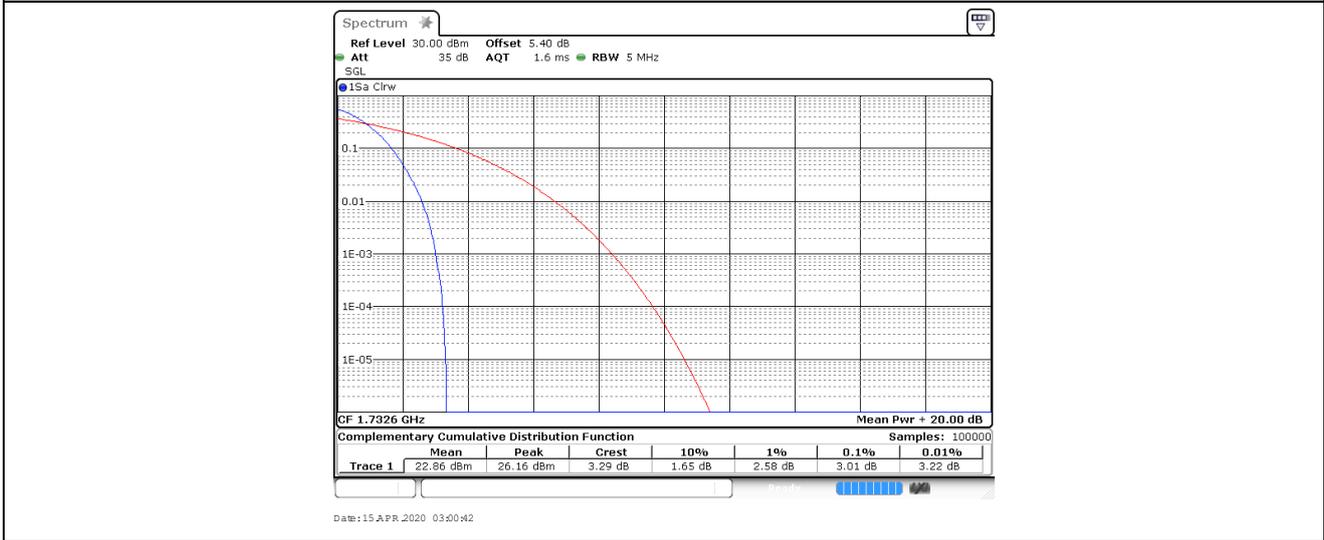


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**Band IV\_1413**

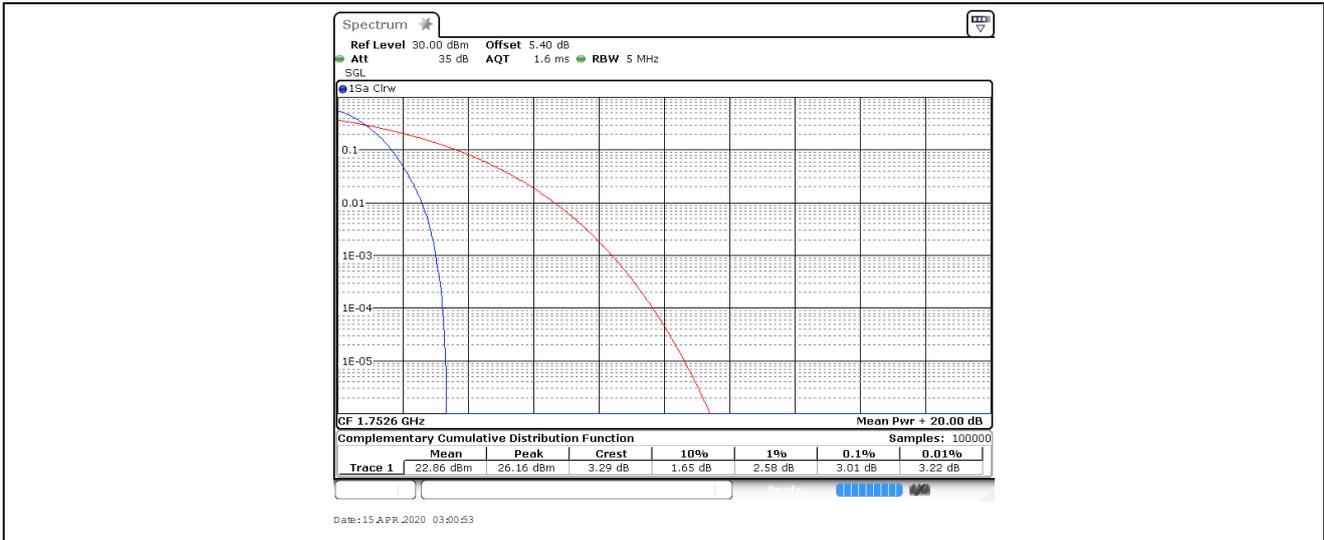


**Band IV\_1513**

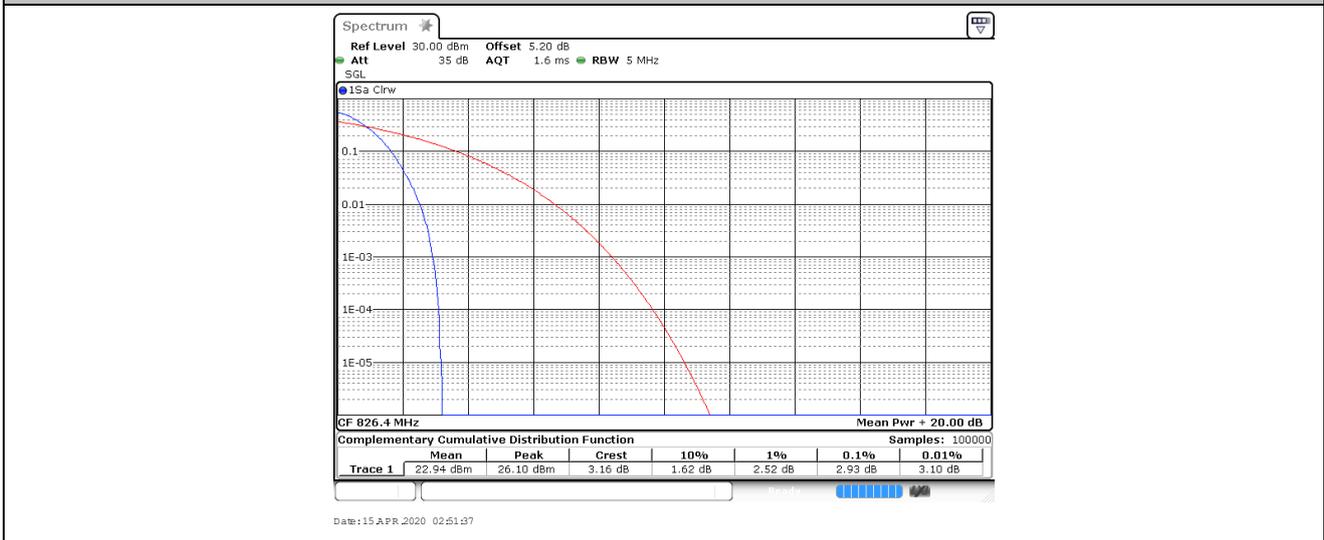


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**Band V\_4132**

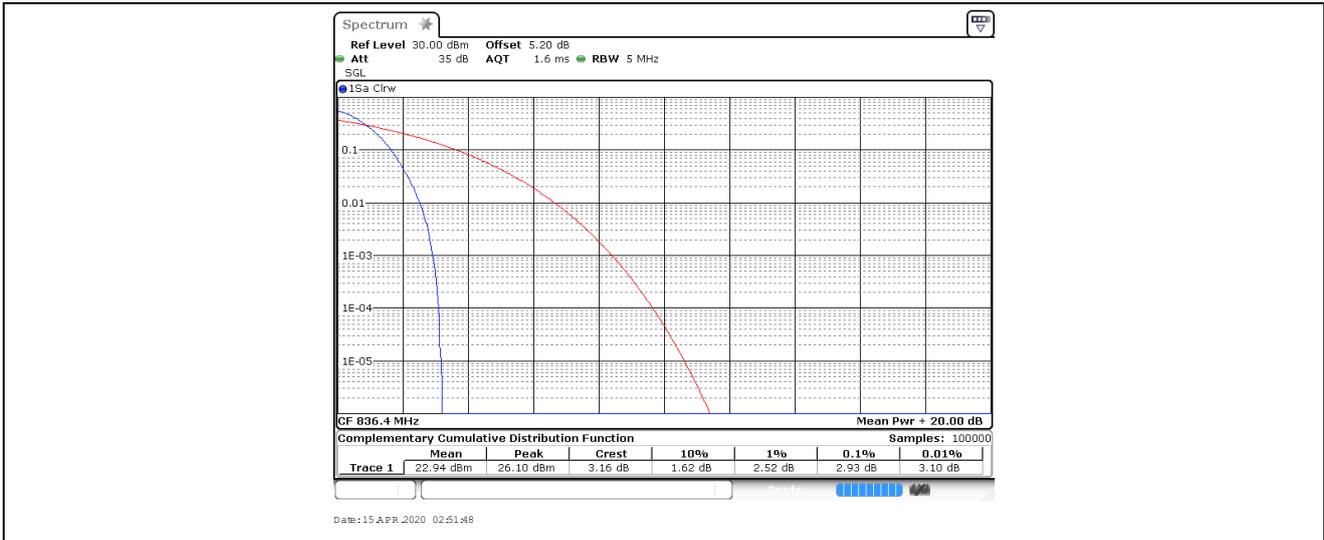


**Band V\_4182**

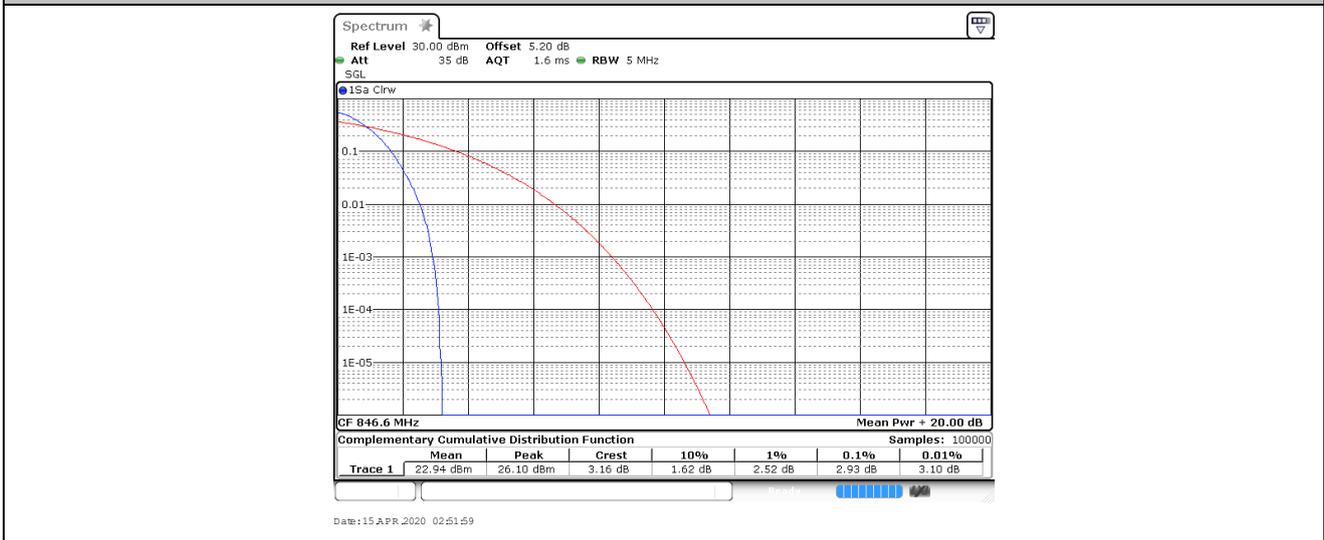


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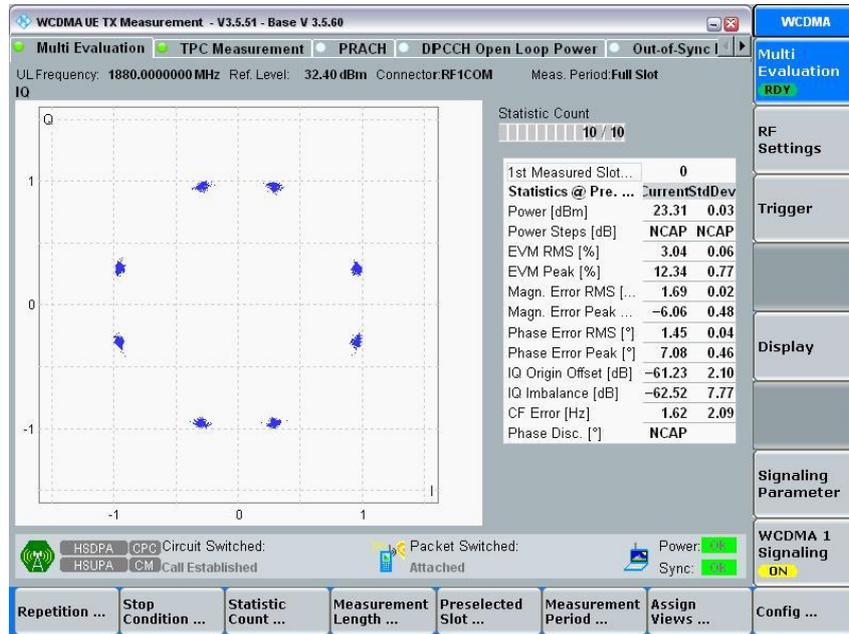
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### 3. Modulation Characteristics

#### 3.1. Test Band = WCDMA Band II

##### 3.1.1. Test Mode = UMTS/TM1

##### 3.1.1.1. Test Channel = MCH



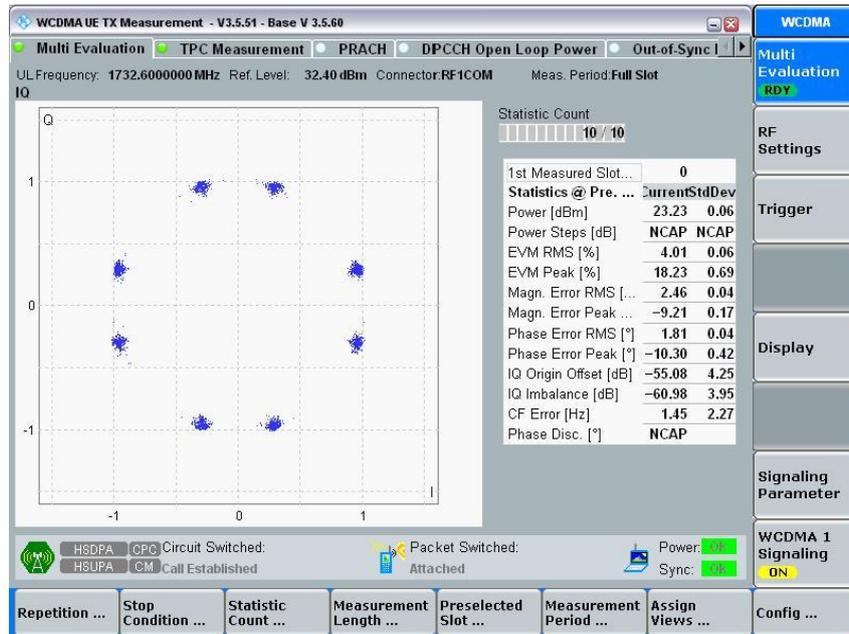
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### 3.2. Test Band = WCDMA Band IV

#### 3.2.1. Test Mode = UMTS/TM1

##### 3.2.1.1. Test Channel = MCH



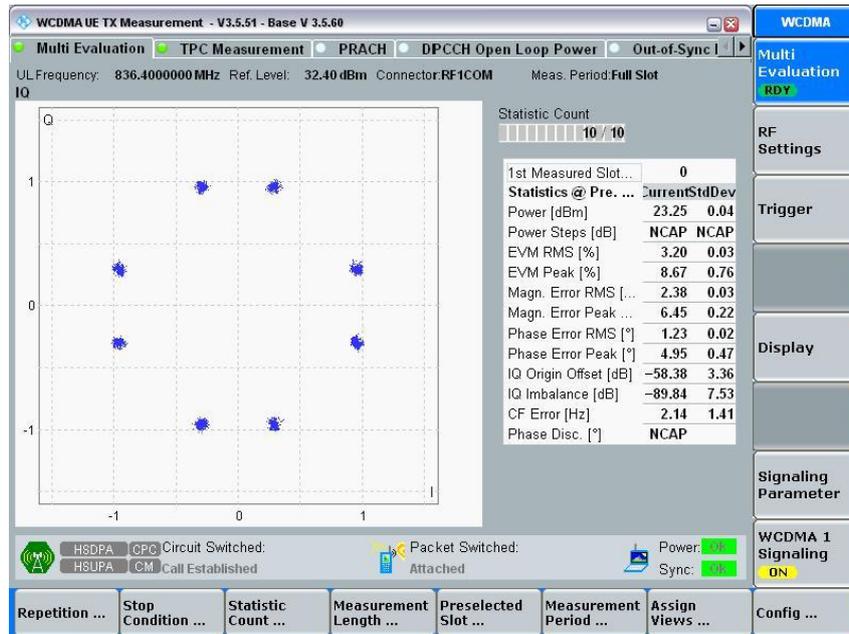
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### 3.3. Test Band = WCDMA Band V

#### 3.3.1. Test Mode = UMTS/TM1

##### 3.3.1.1. Test Channel = MCH



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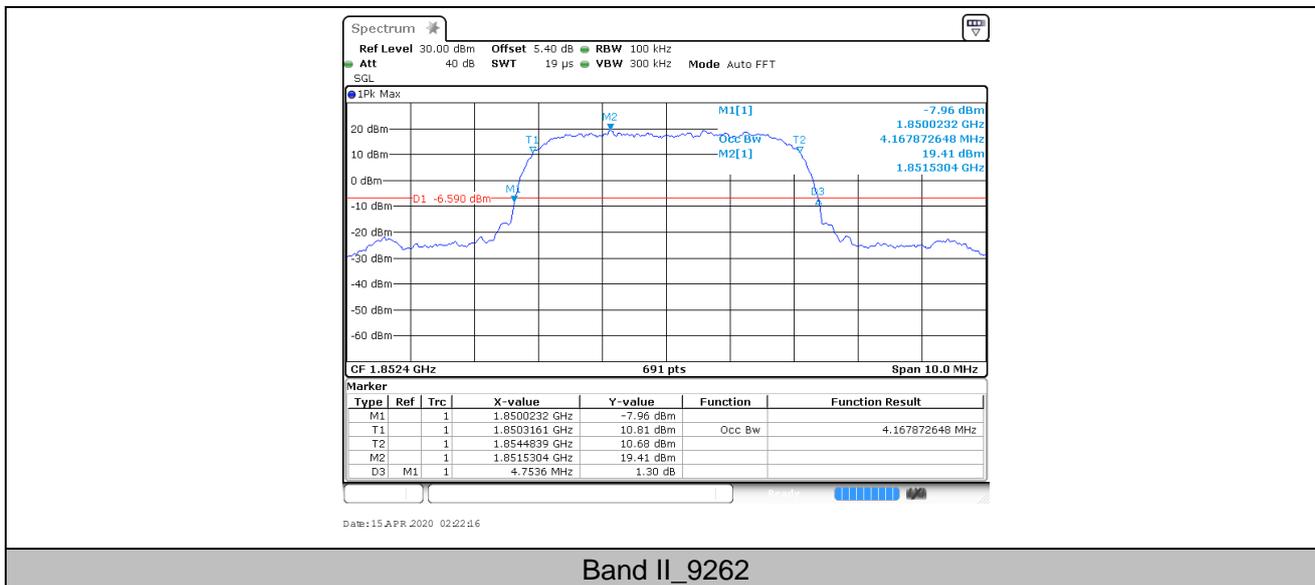
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

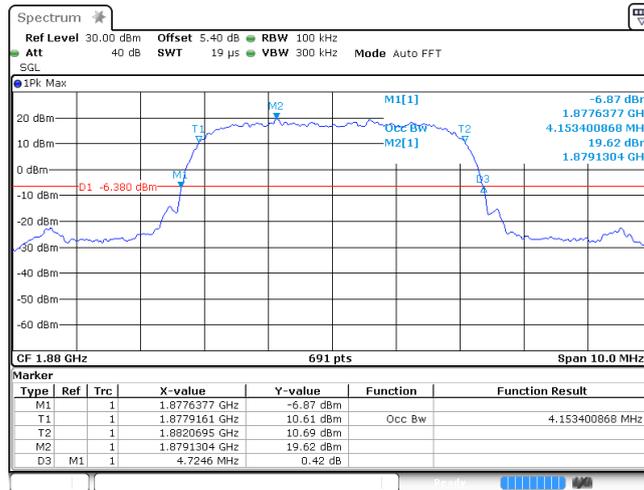
| Band    | Channel | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|---------|---------|--------------------------|----------------------|------------|---------|
| Band II | 9262    | 4167.9                   | 4754                 | ---        | PASS    |
| Band II | 9400    | 4153.4                   | 4725                 | ---        | PASS    |
| Band II | 9538    | 4167.9                   | 4739                 | ---        | PASS    |
| Band IV | 1312    | 4138.9                   | 4725                 | ---        | PASS    |
| Band IV | 1413    | 4167.9                   | 4725                 | ---        | PASS    |
| Band IV | 1513    | 4167.9                   | 4754                 | ---        | PASS    |
| Band V  | 4132    | 4153.4                   | 4725                 | ---        | PASS    |
| Band V  | 4182    | 4153.4                   | 4725                 | ---        | PASS    |
| Band V  | 4233    | 4153.4                   | 4710                 | ---        | PASS    |

### 4.2. Test Plots

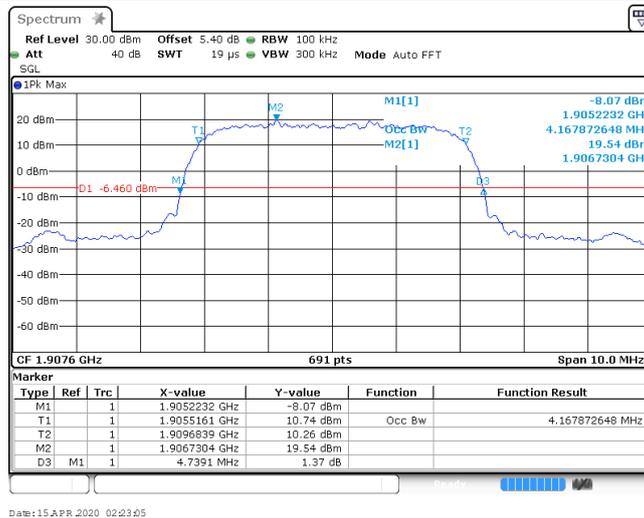


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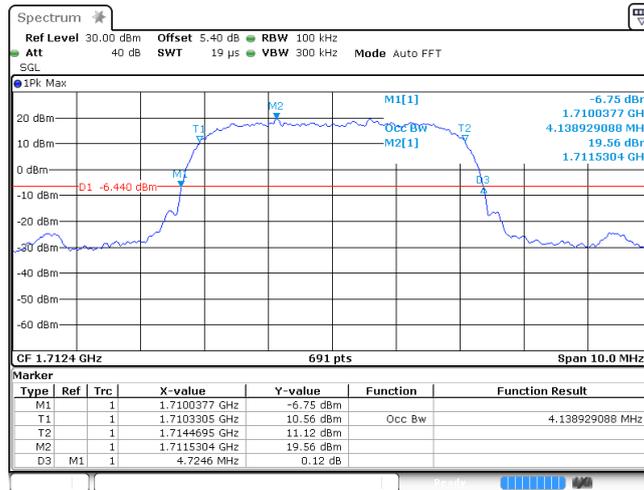
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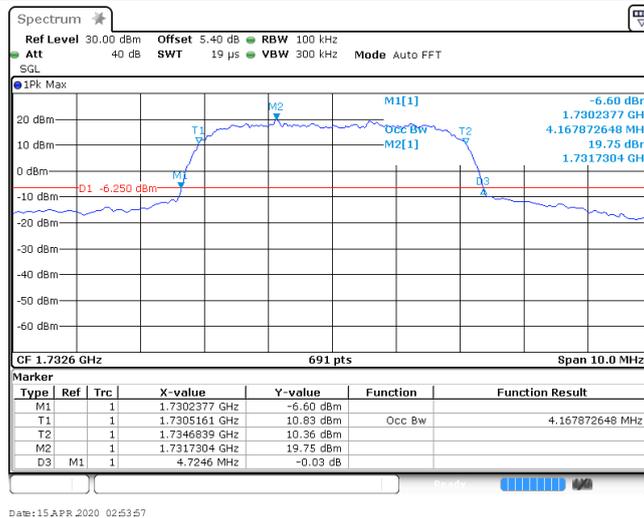
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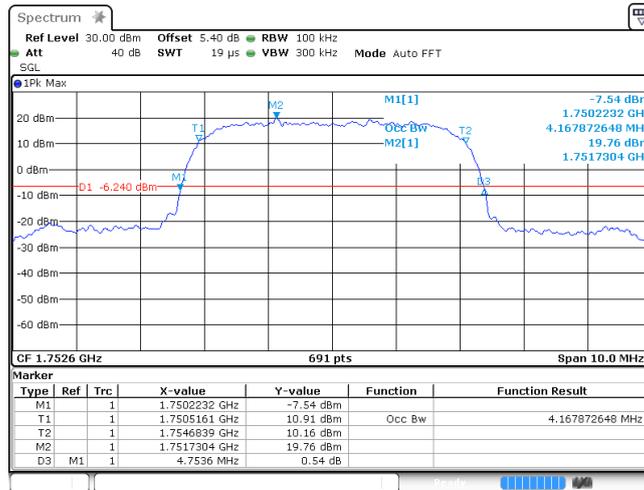


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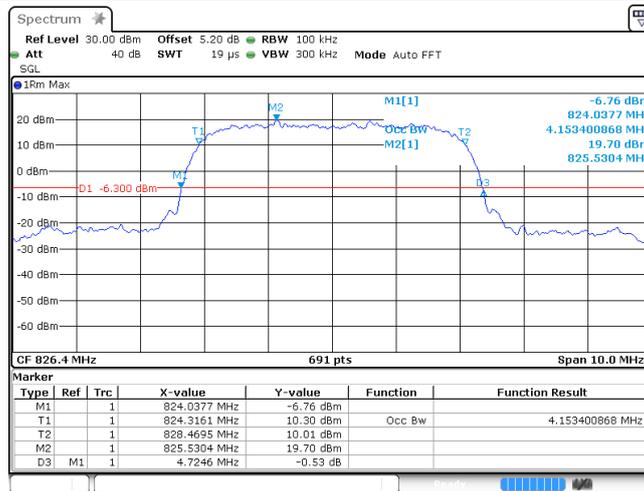
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Date: 15 APR 2020 02:54:21

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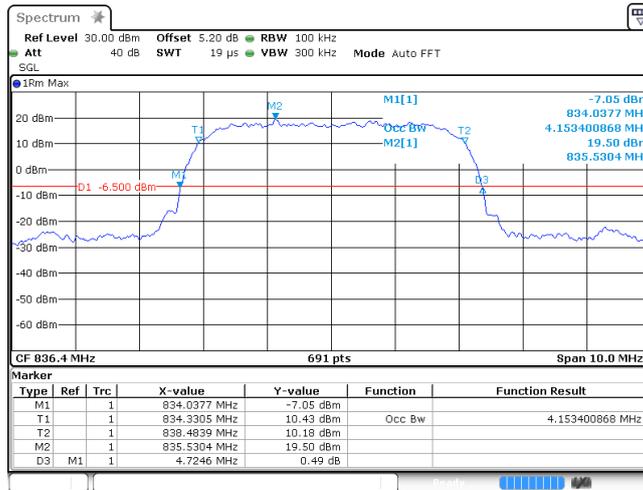


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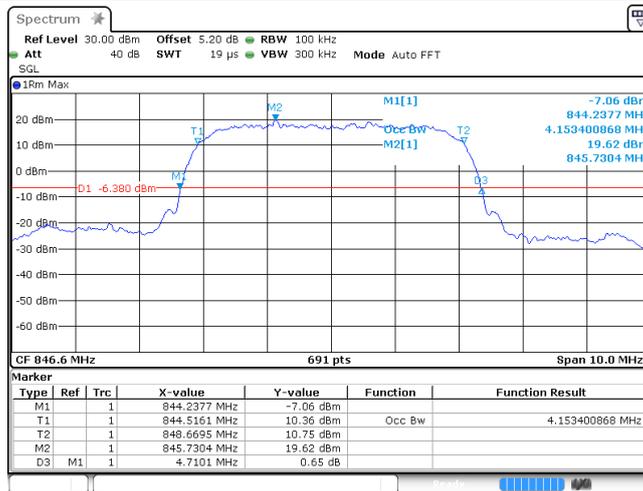


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Date: 15 APR 2020 02:33:14

**Band V\_4182**



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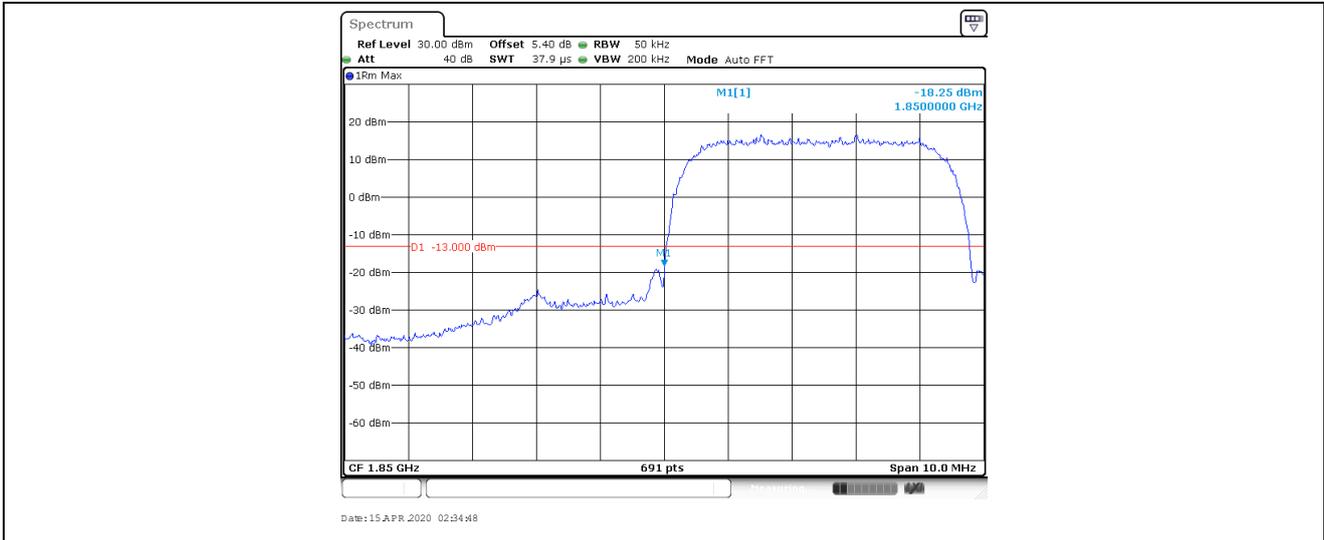
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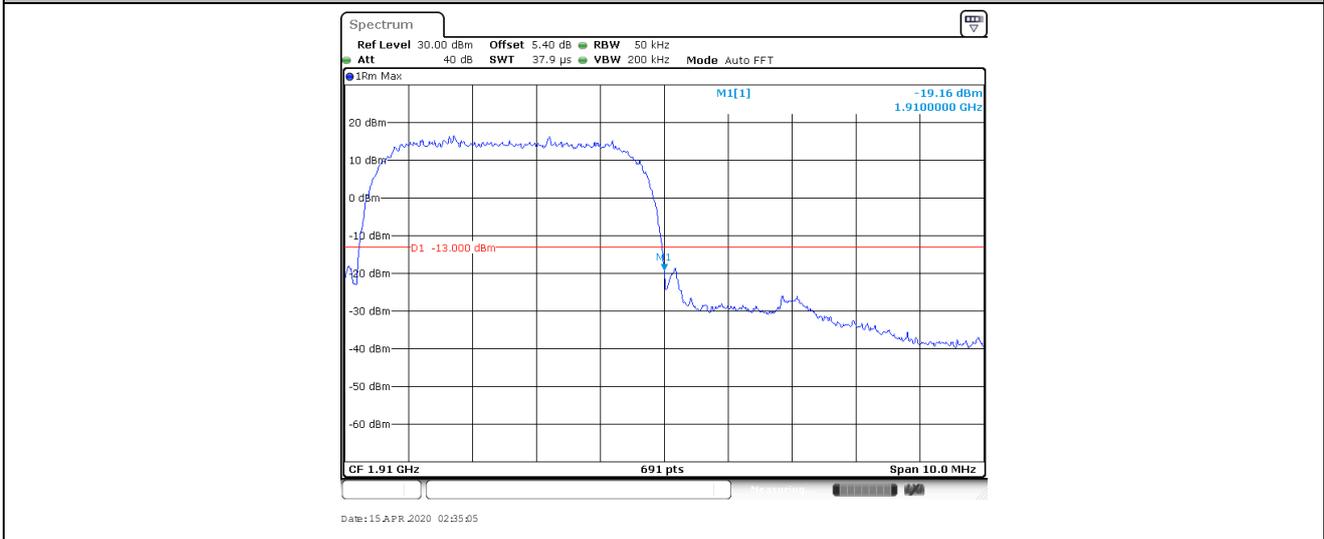
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## 5. Band Edge Compliance

### 5.1. Test Plots



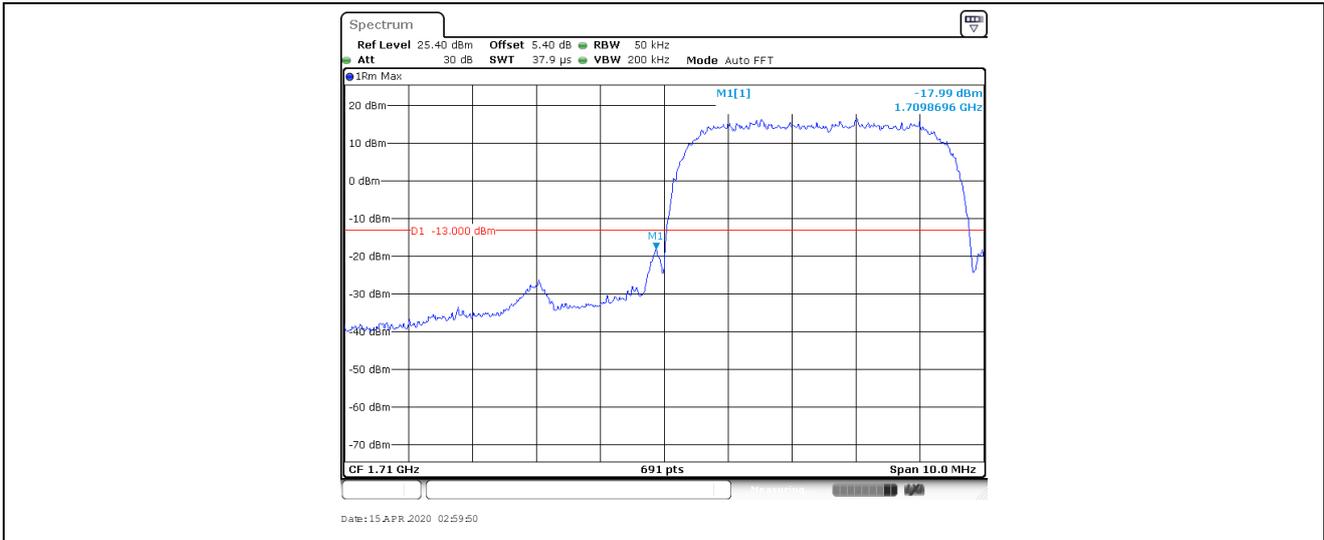
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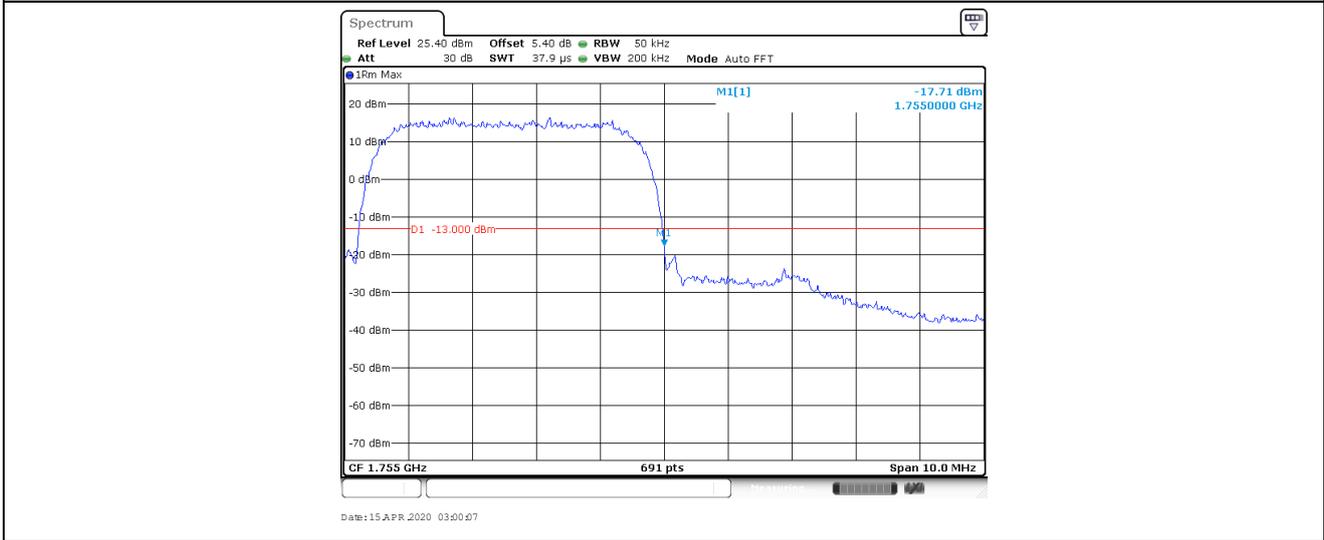
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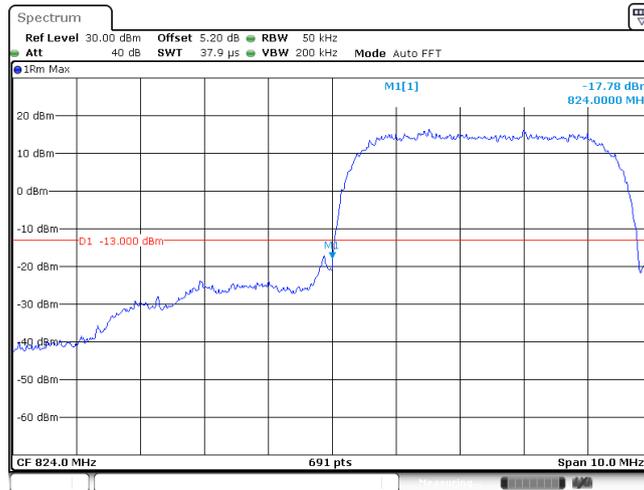


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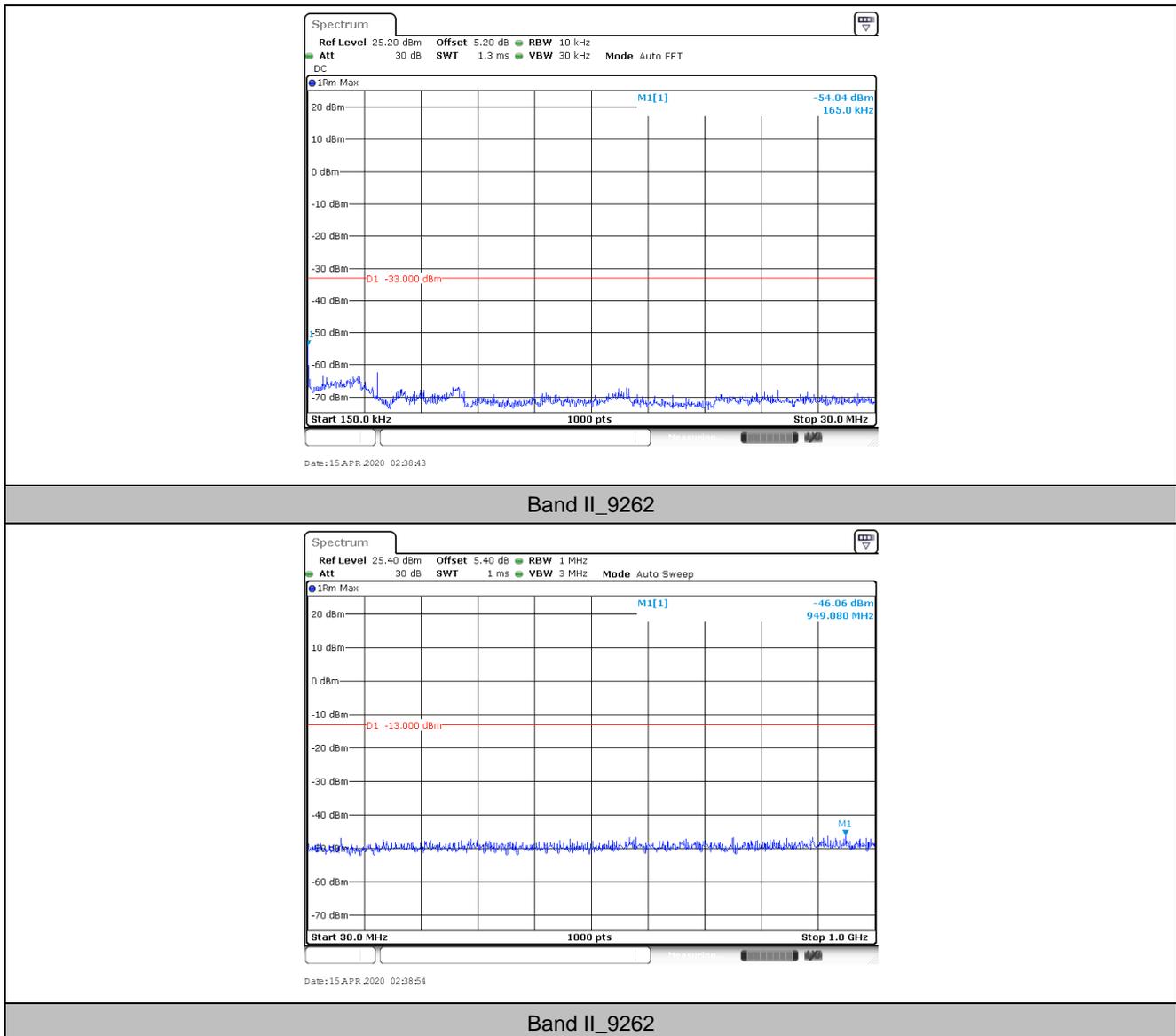
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## 6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

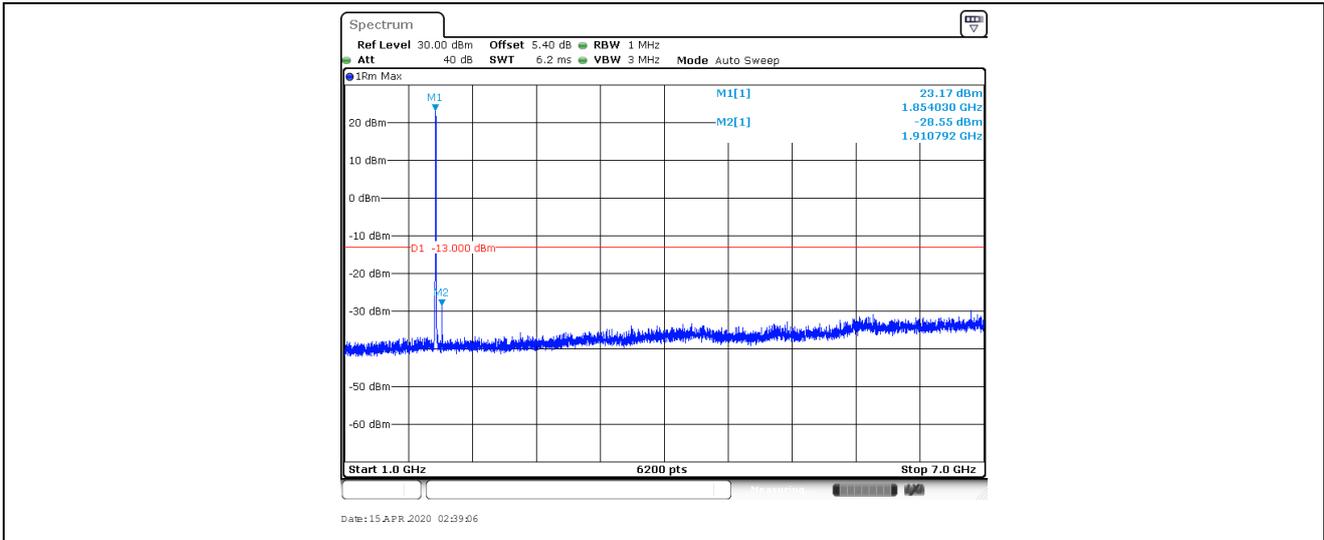
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots

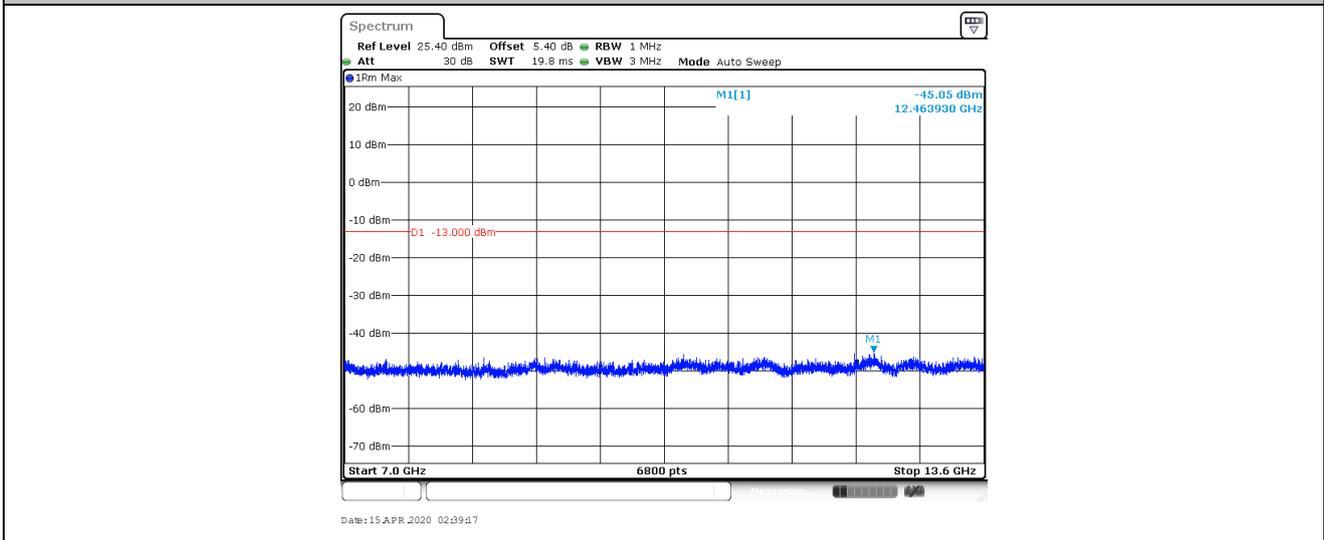


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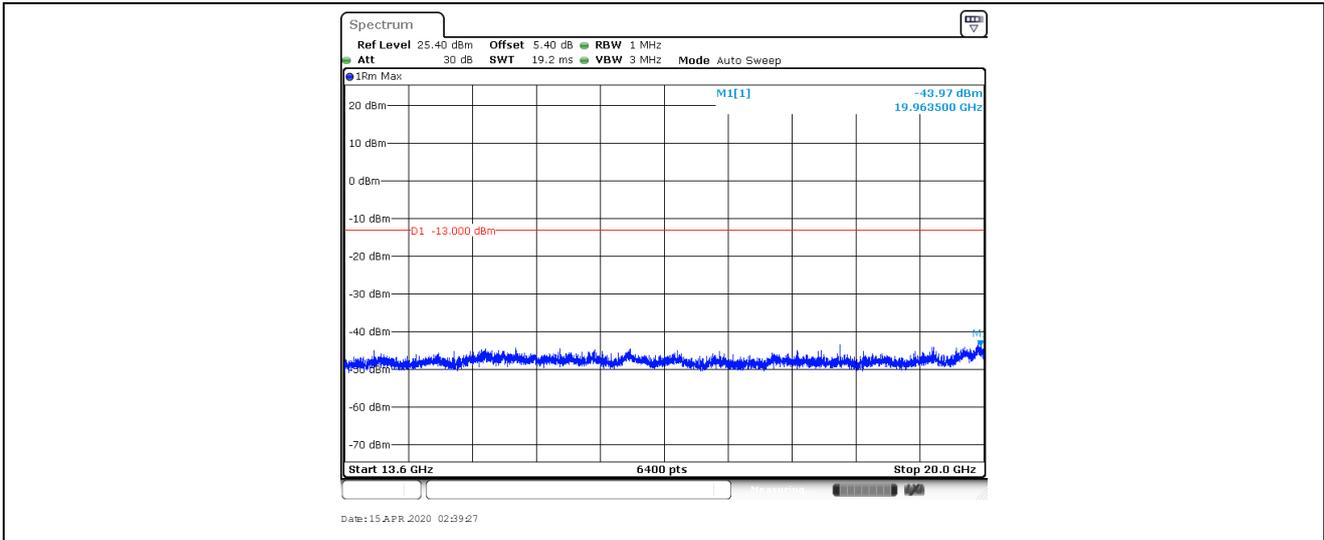


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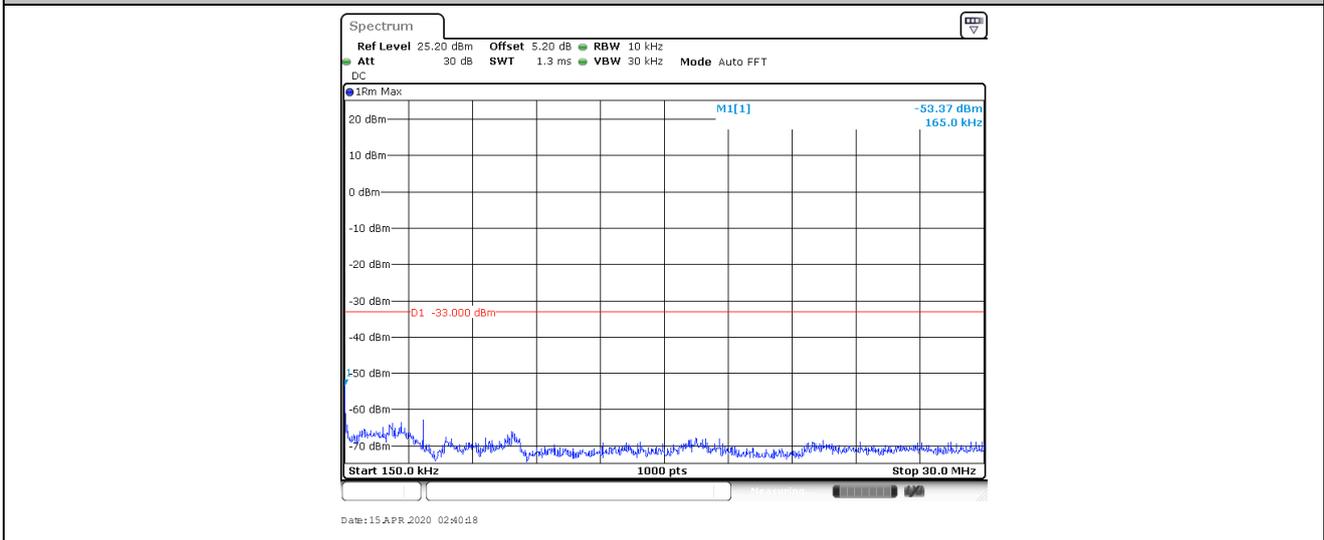


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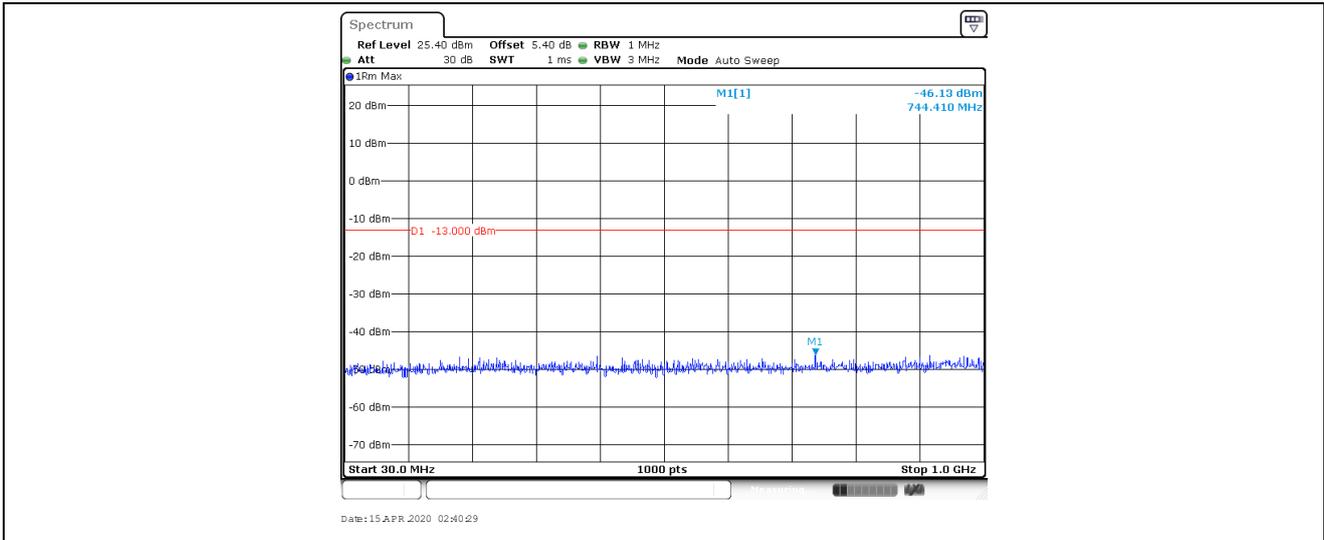
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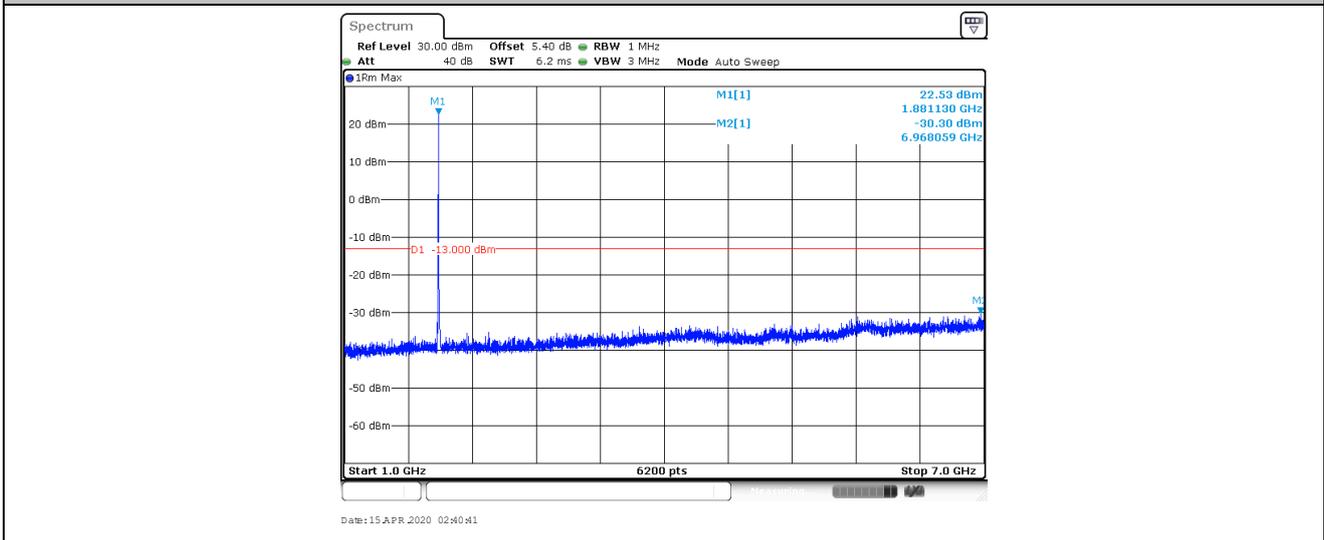
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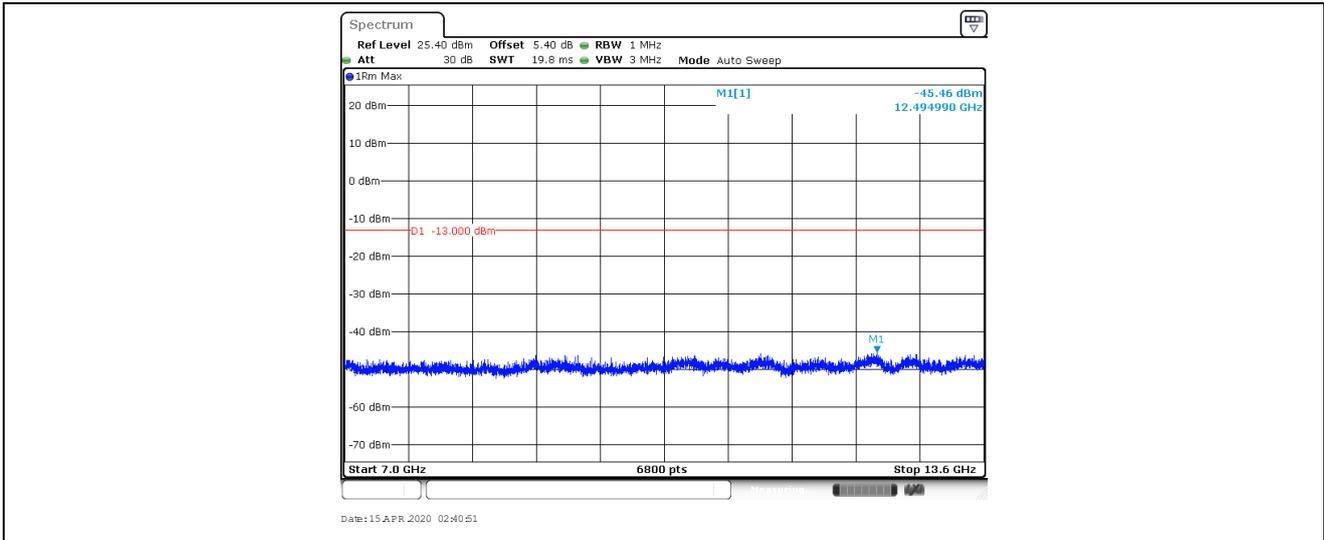


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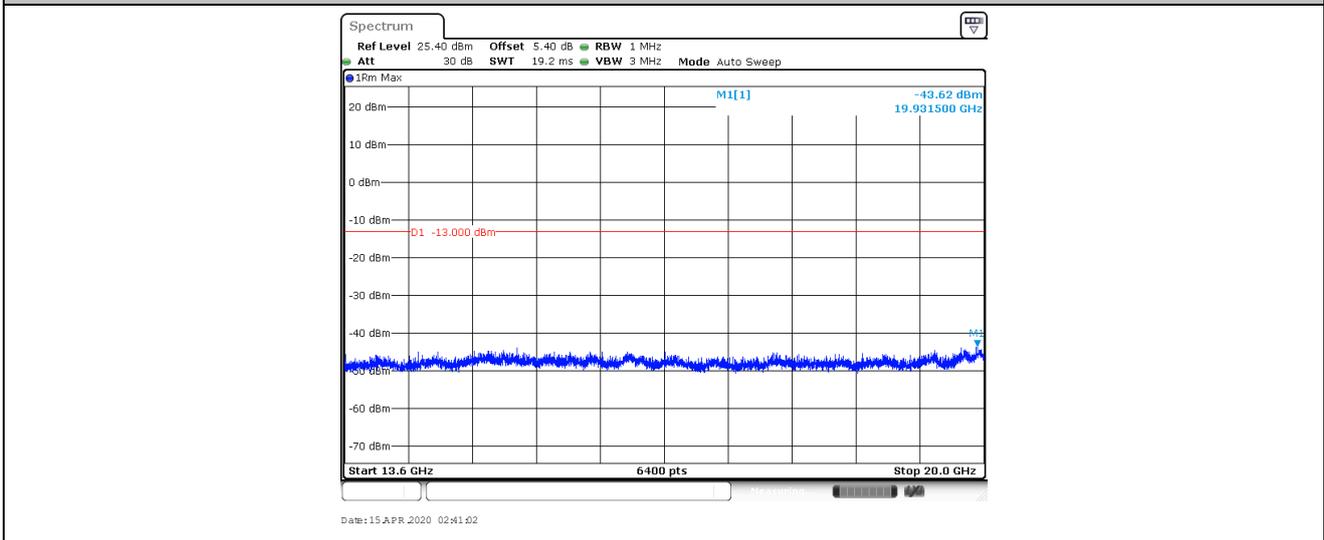


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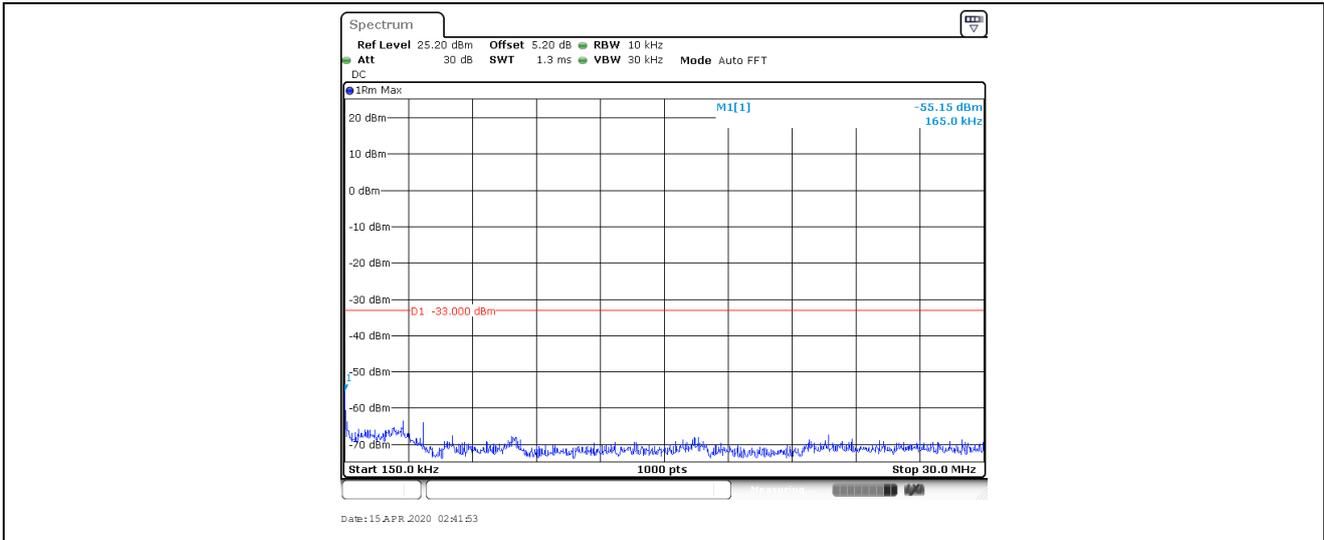


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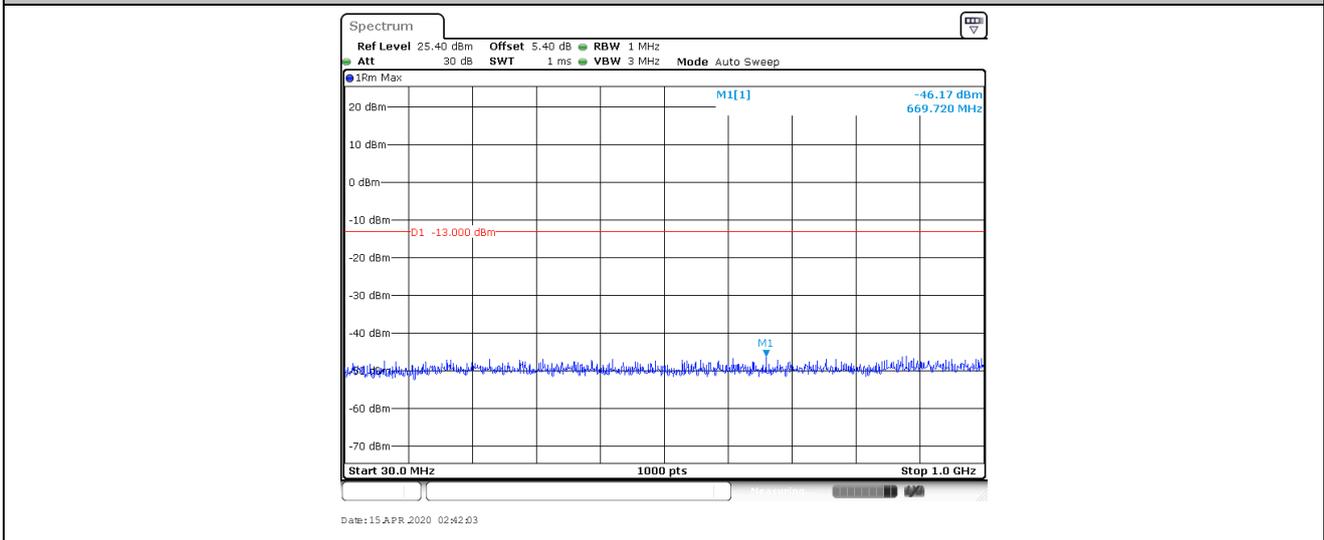


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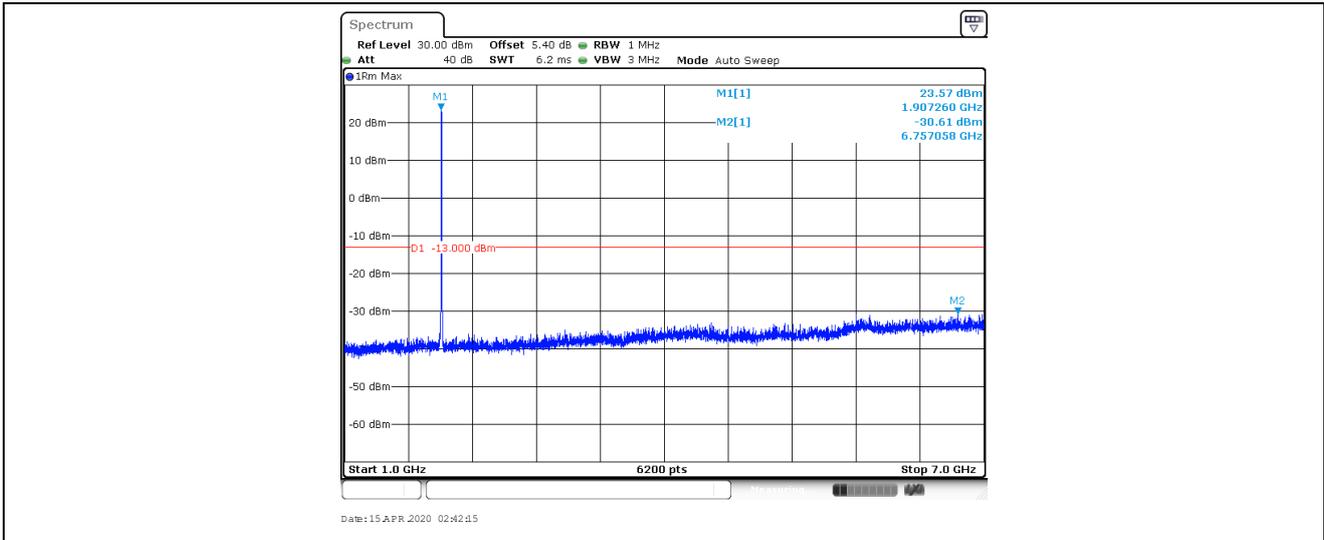
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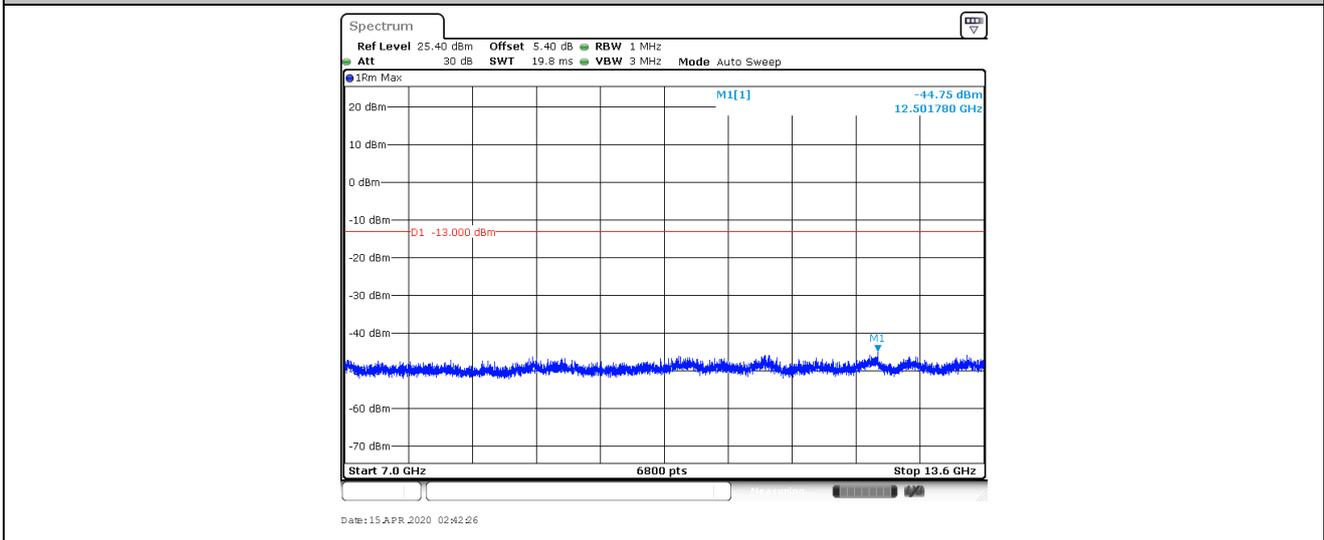
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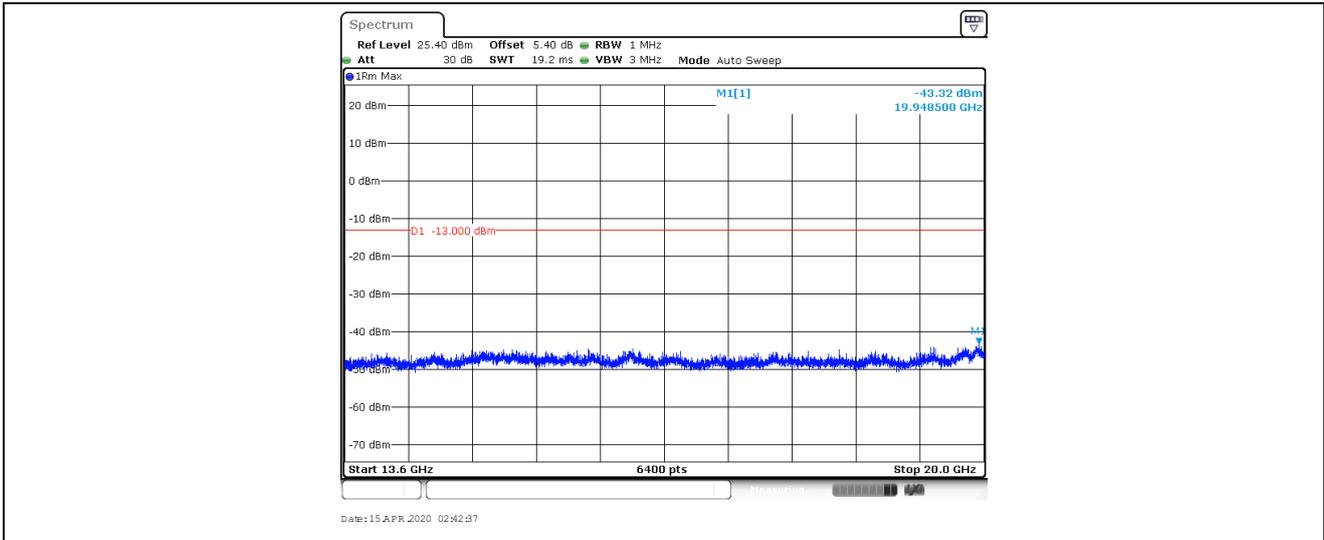
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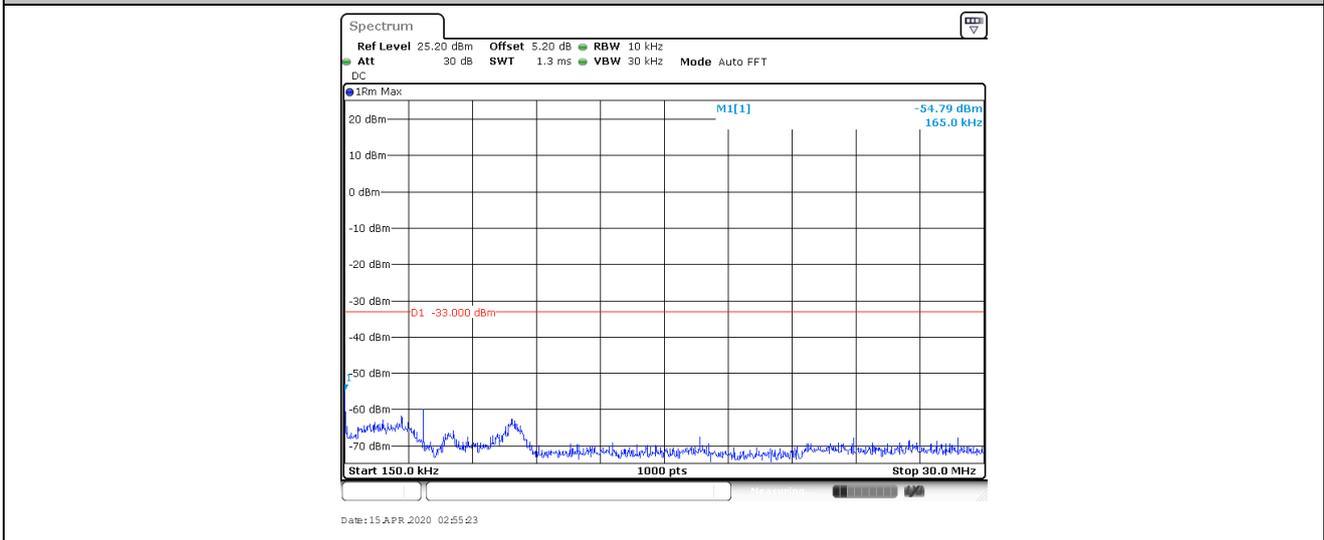
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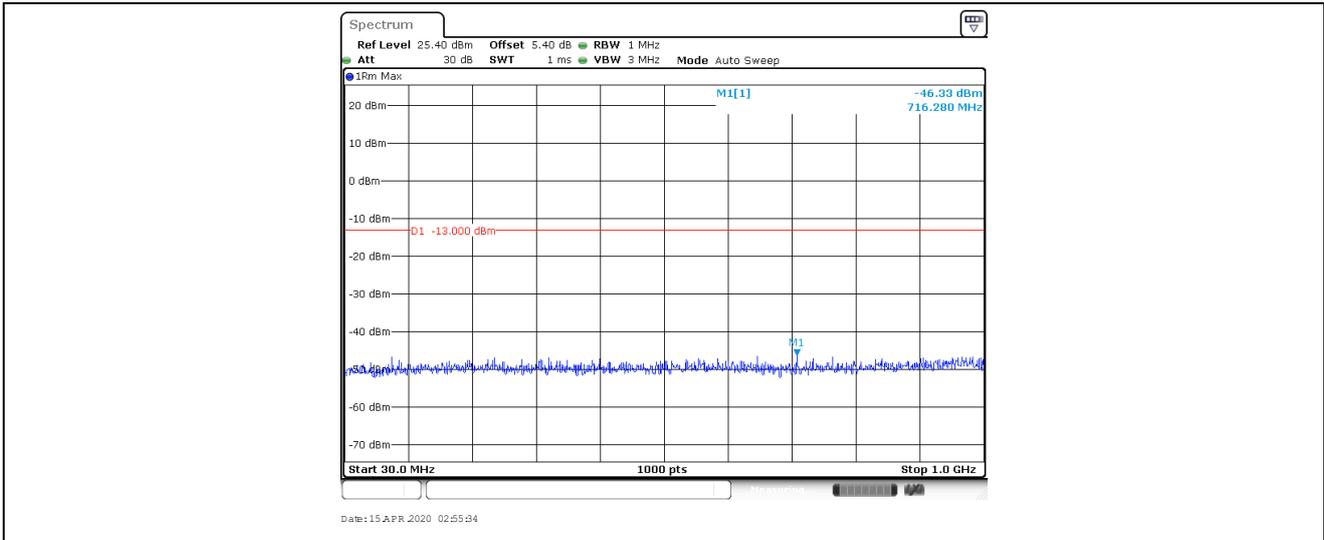
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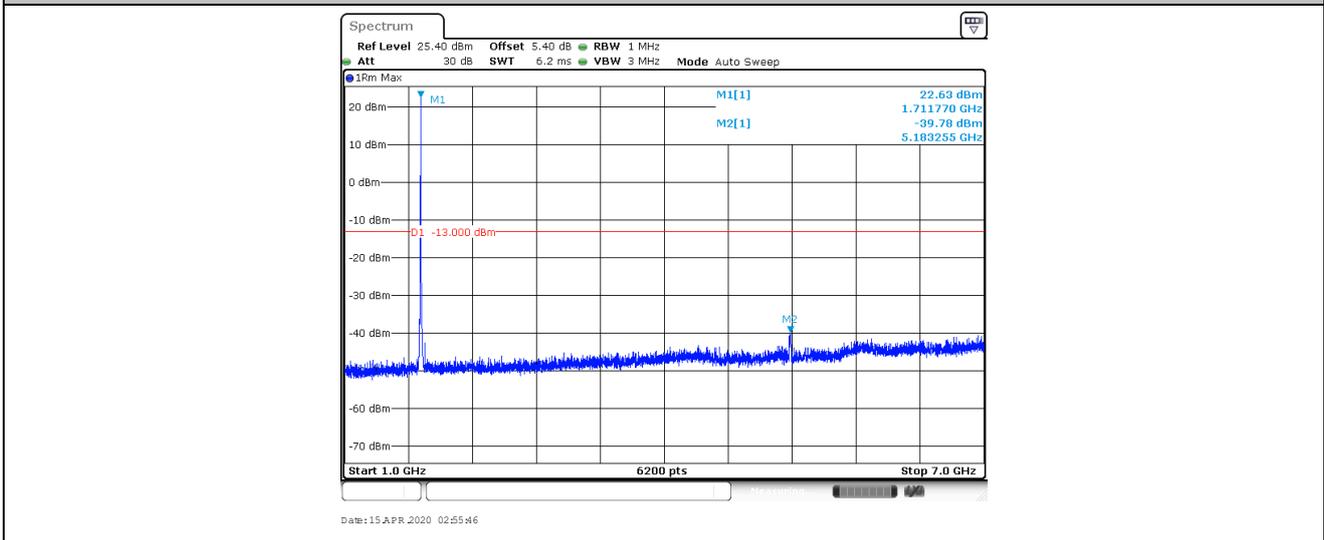
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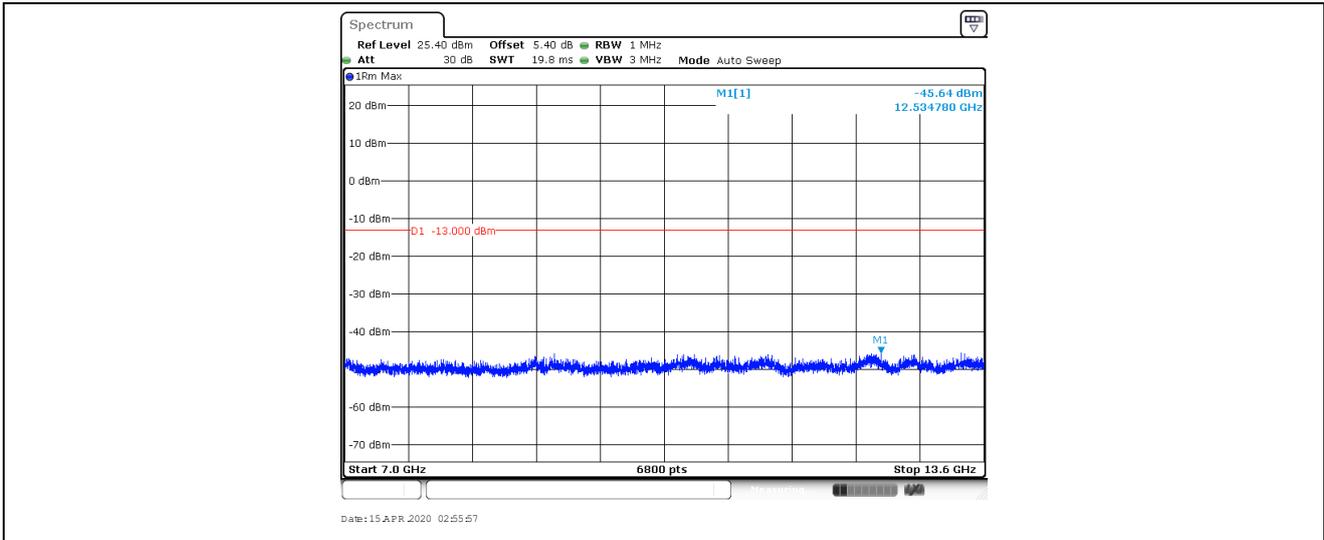


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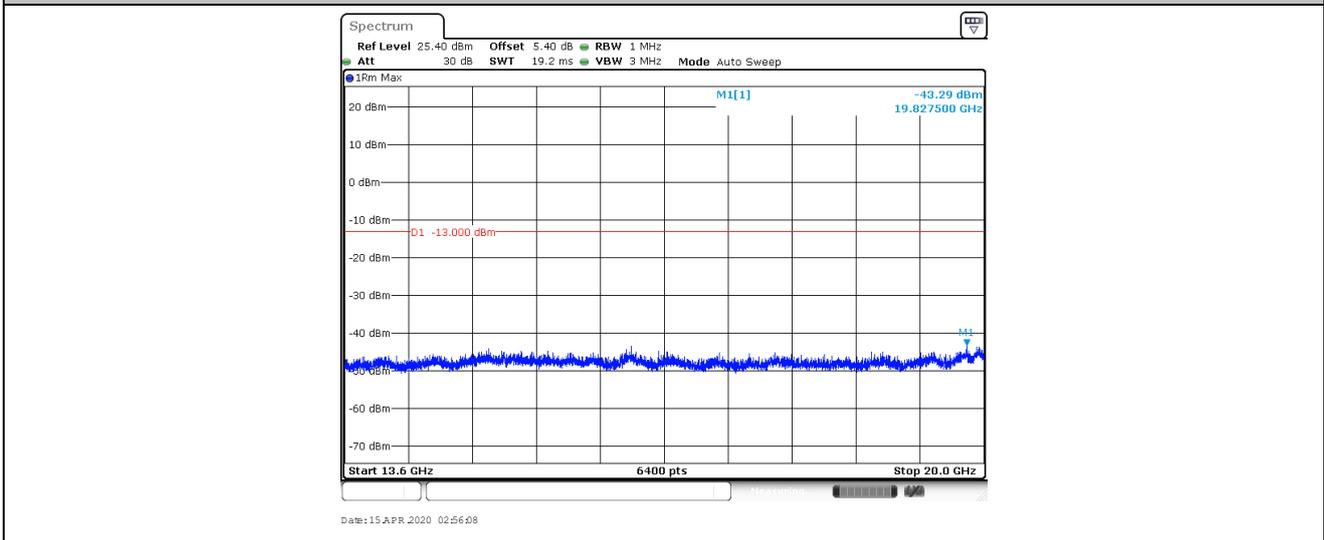


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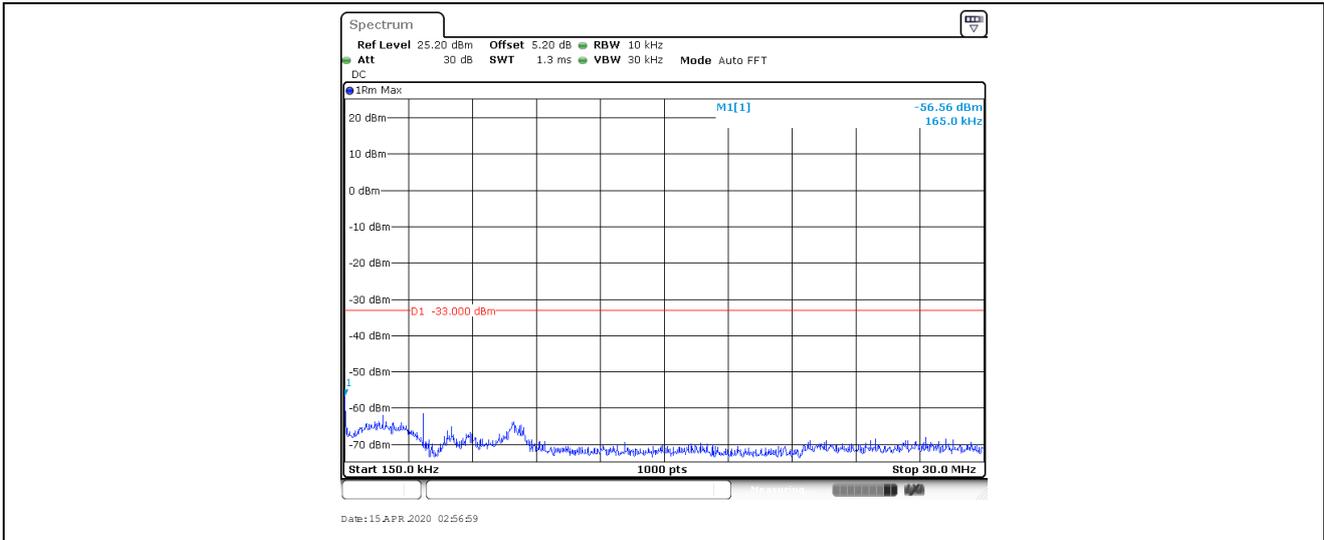


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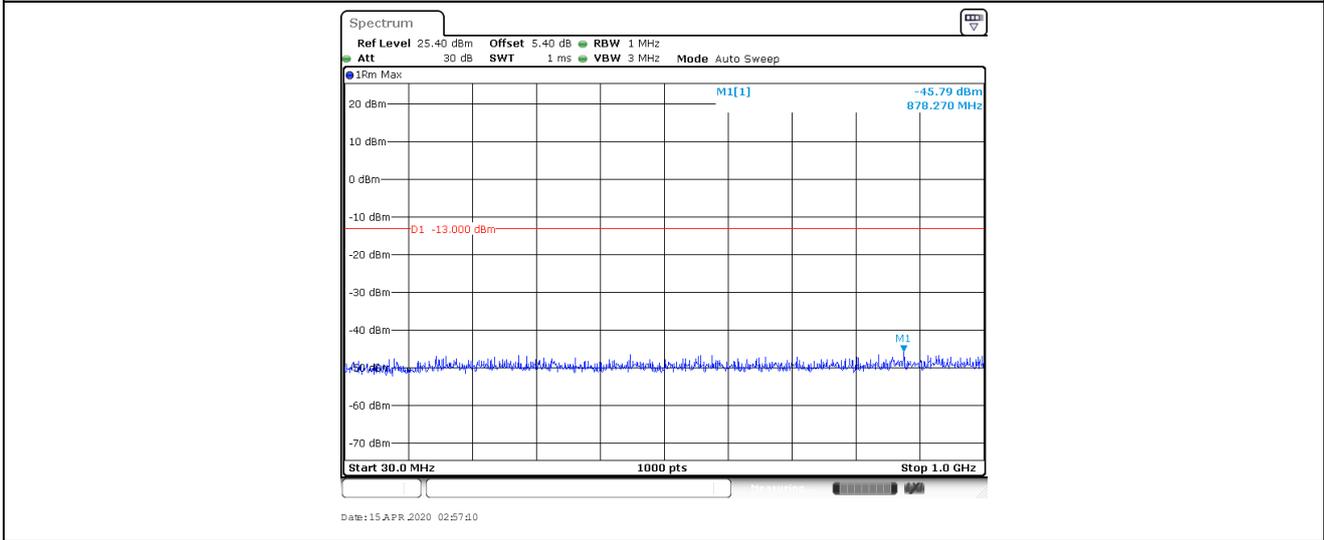


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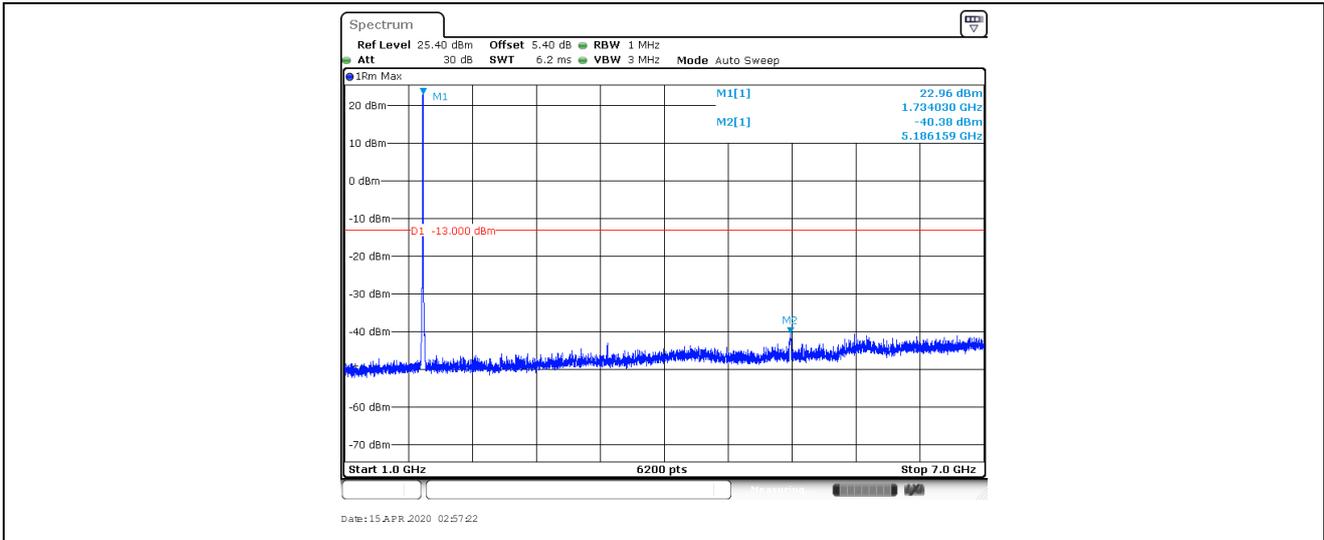


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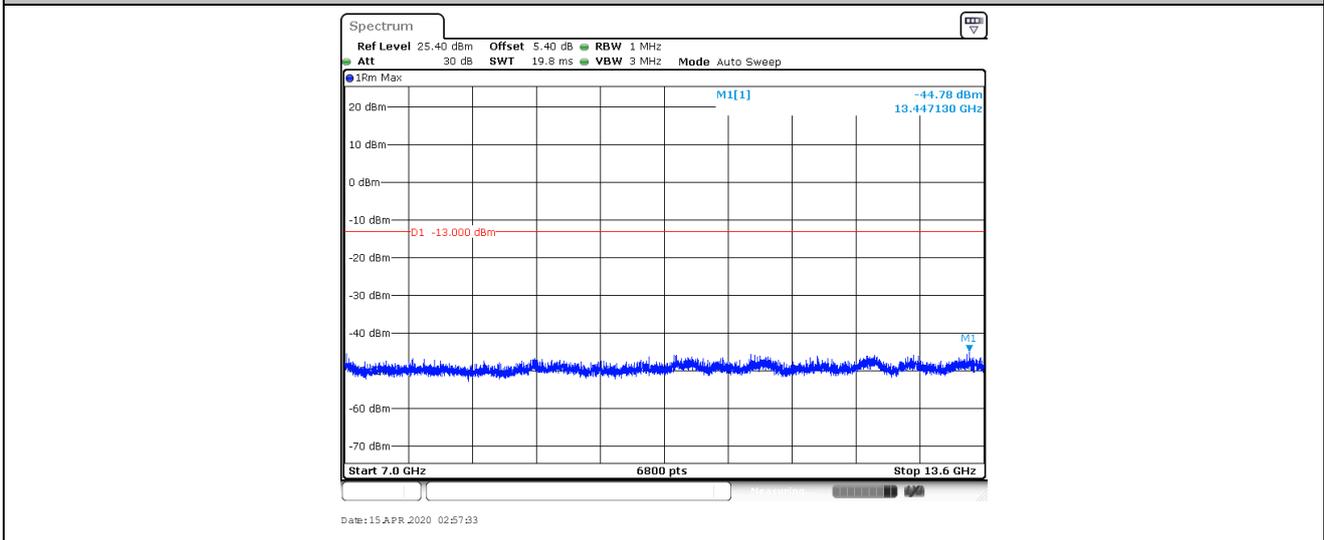


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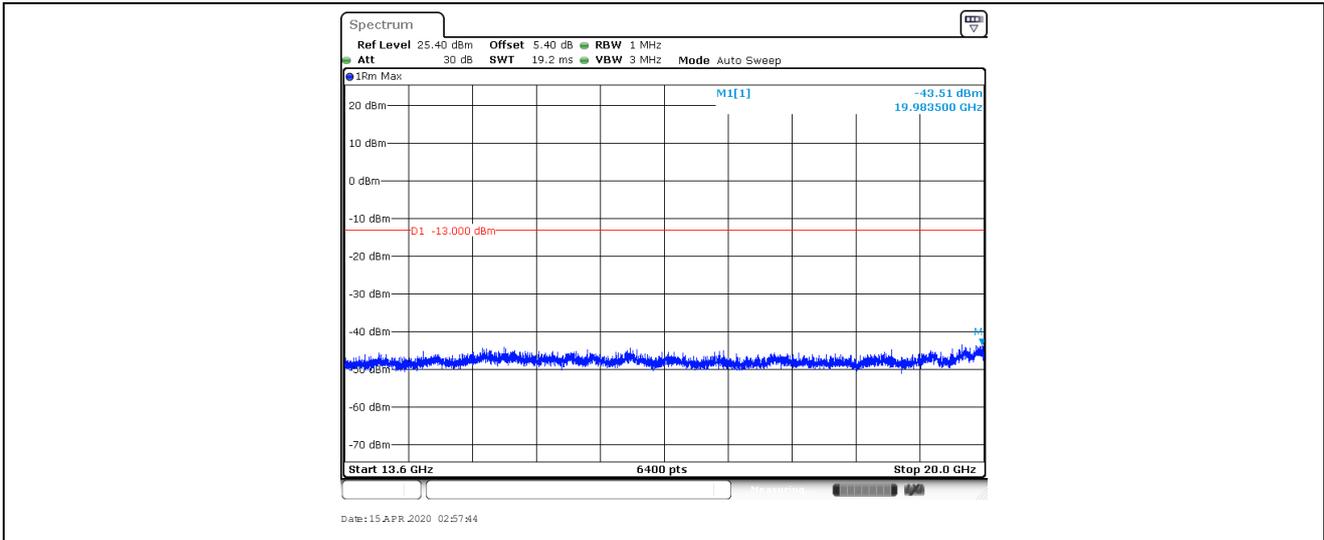


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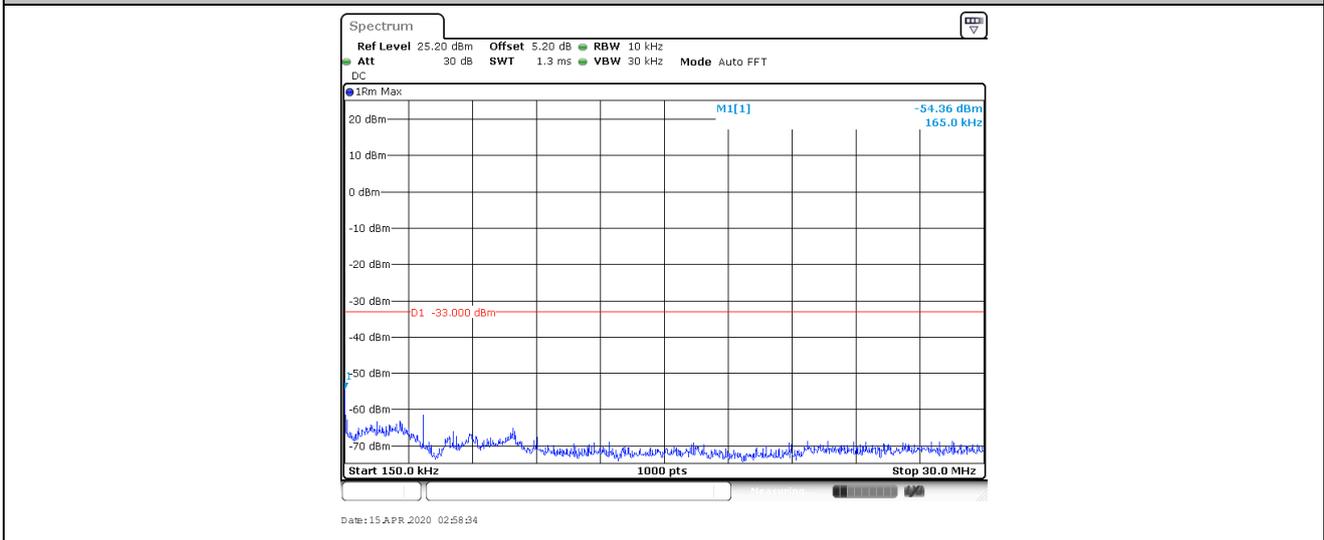


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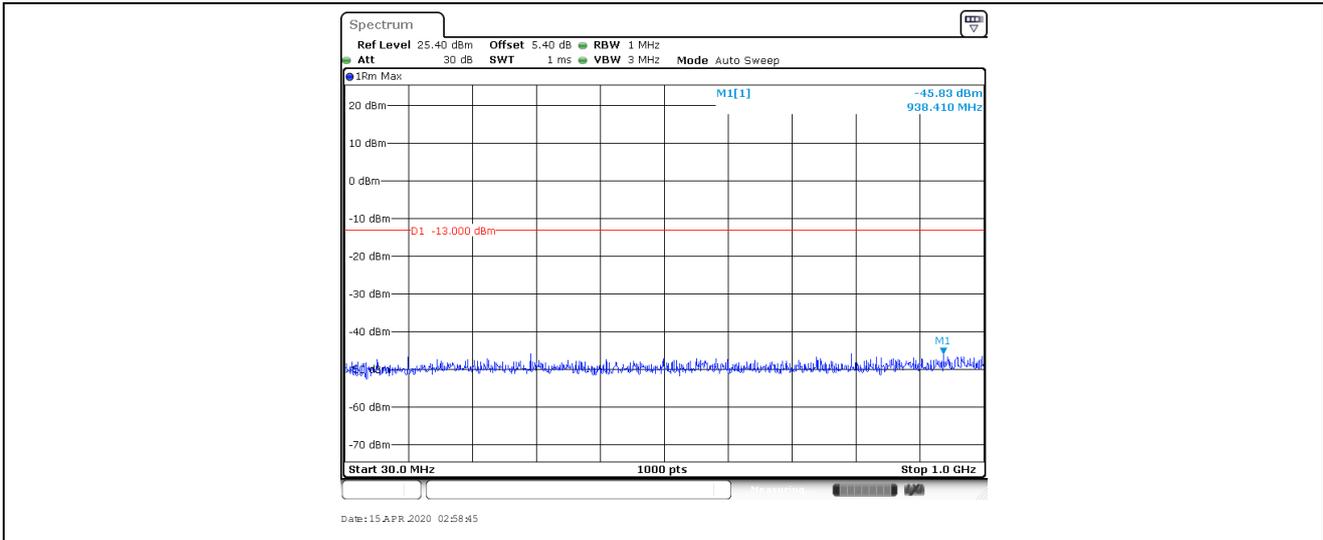
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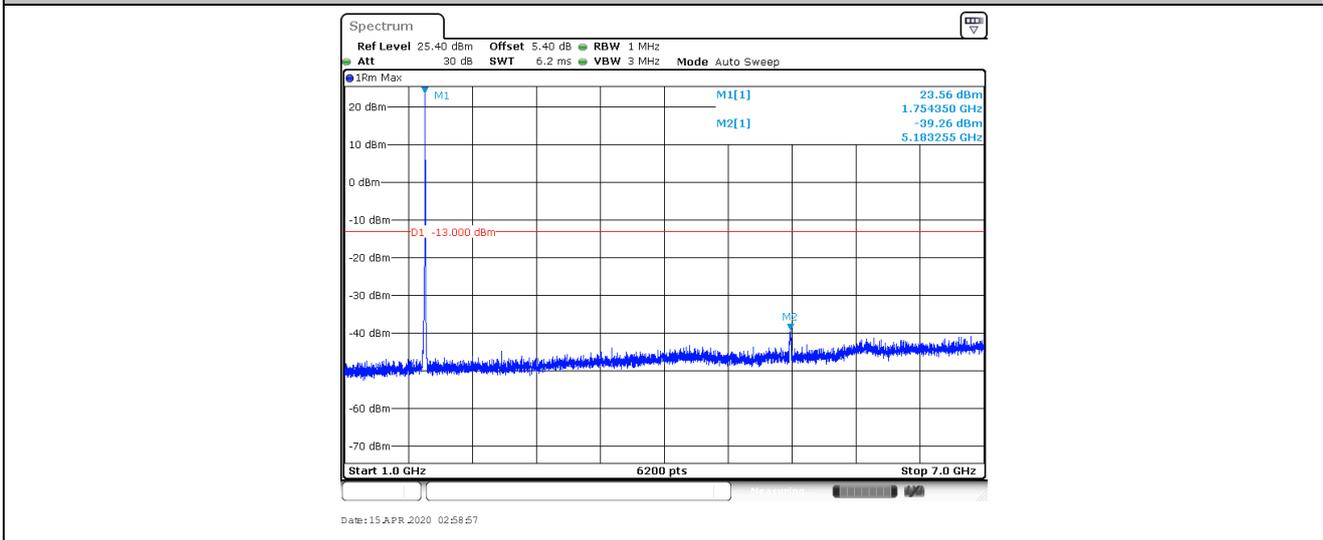
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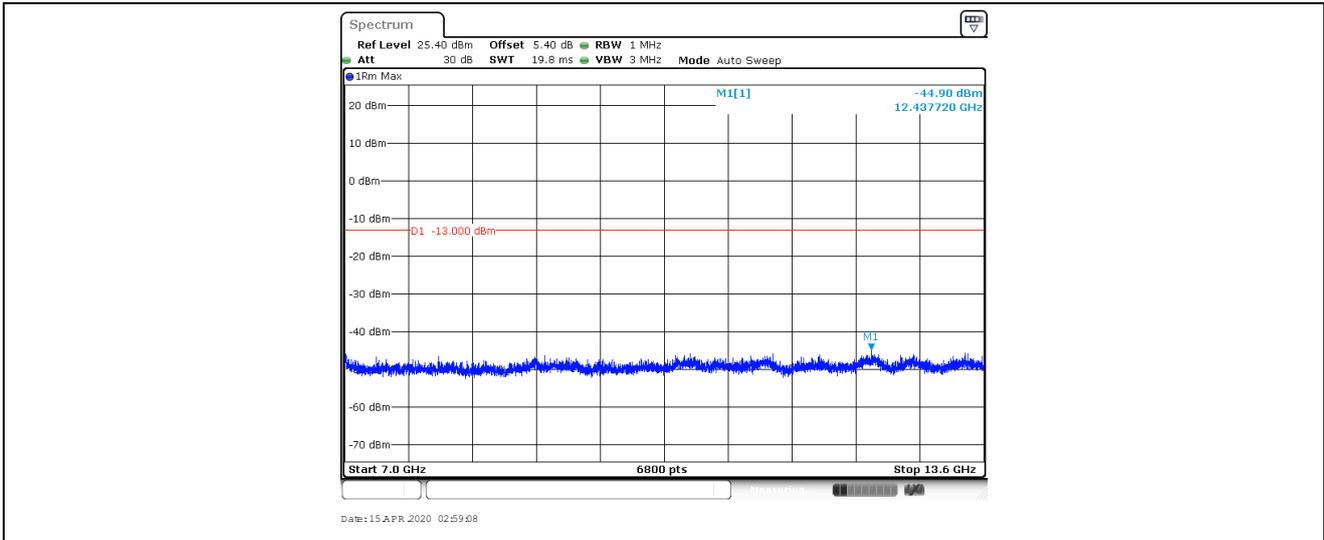
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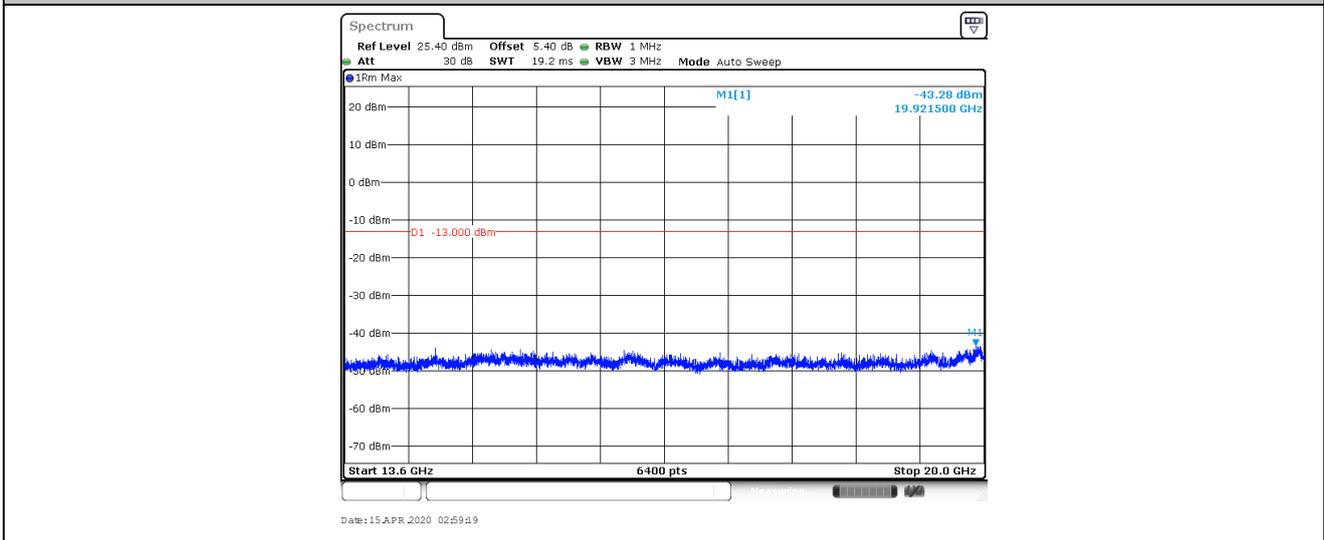
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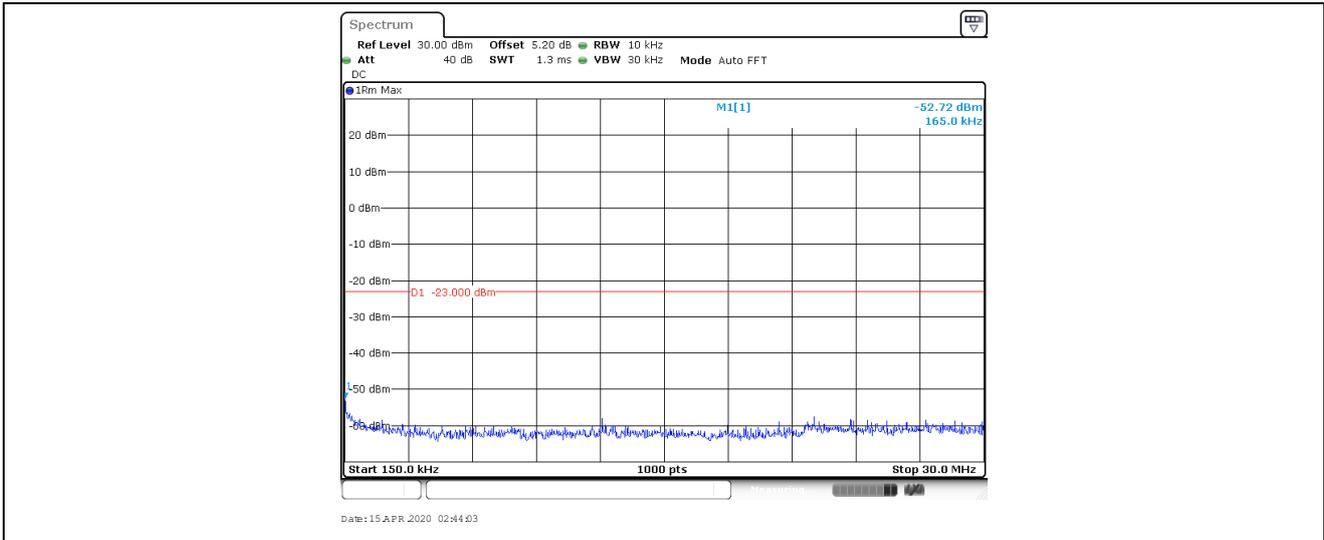


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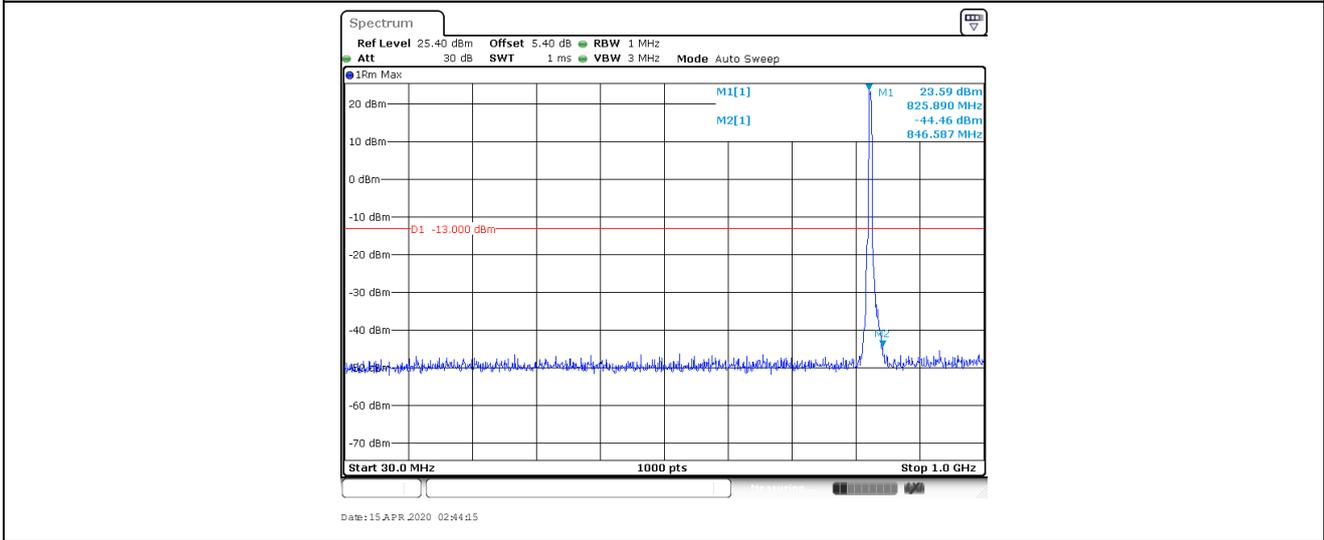


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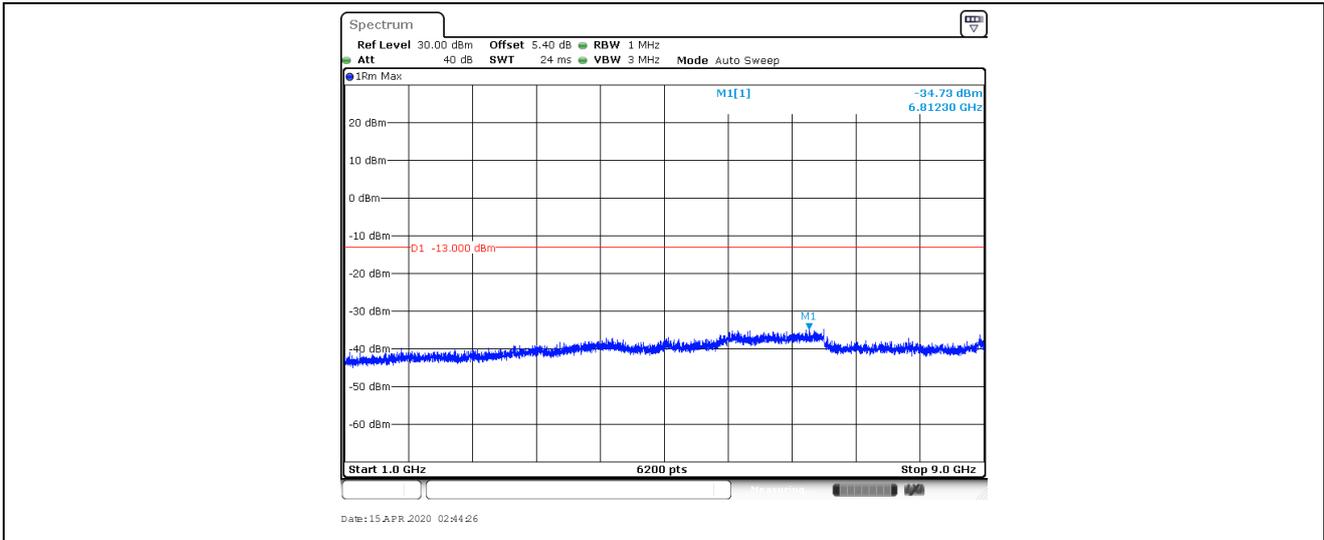
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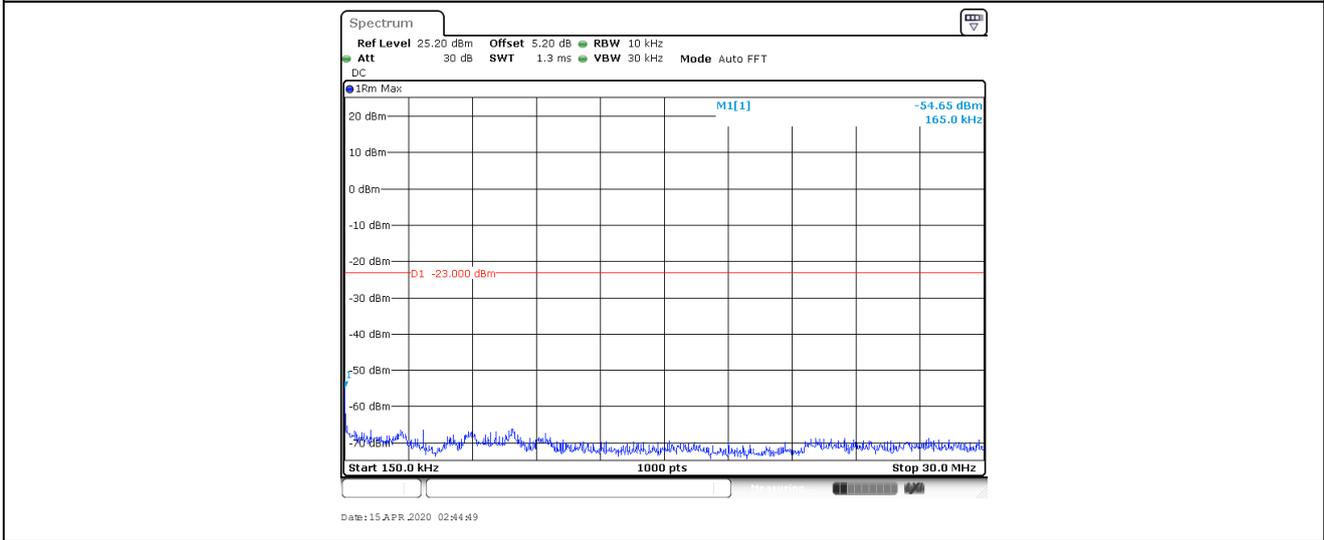
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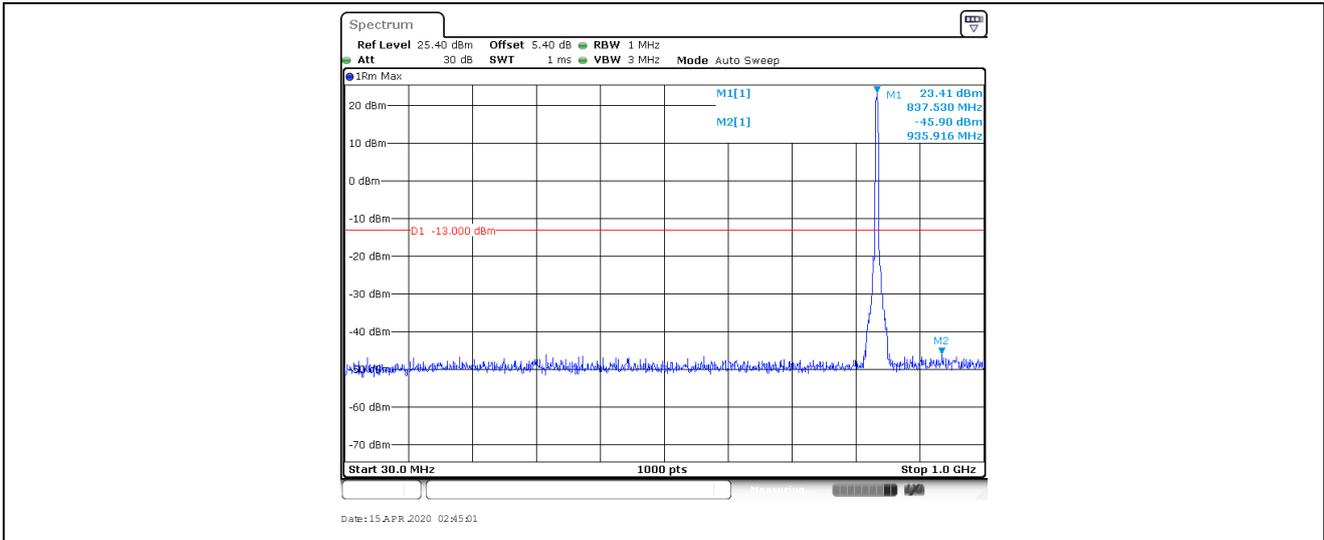
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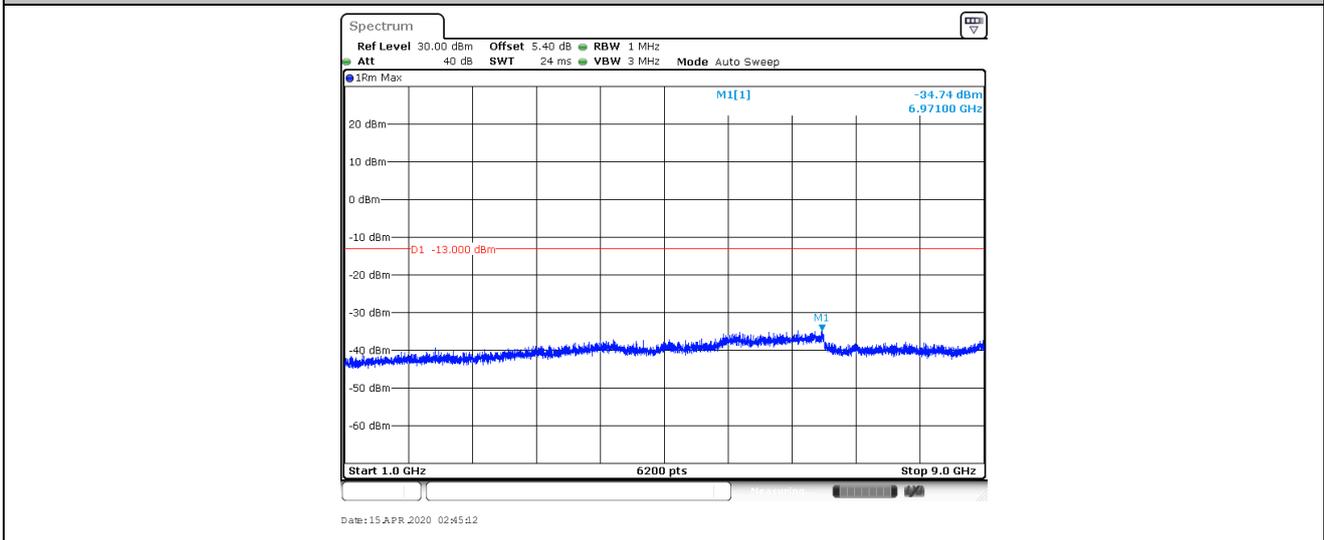
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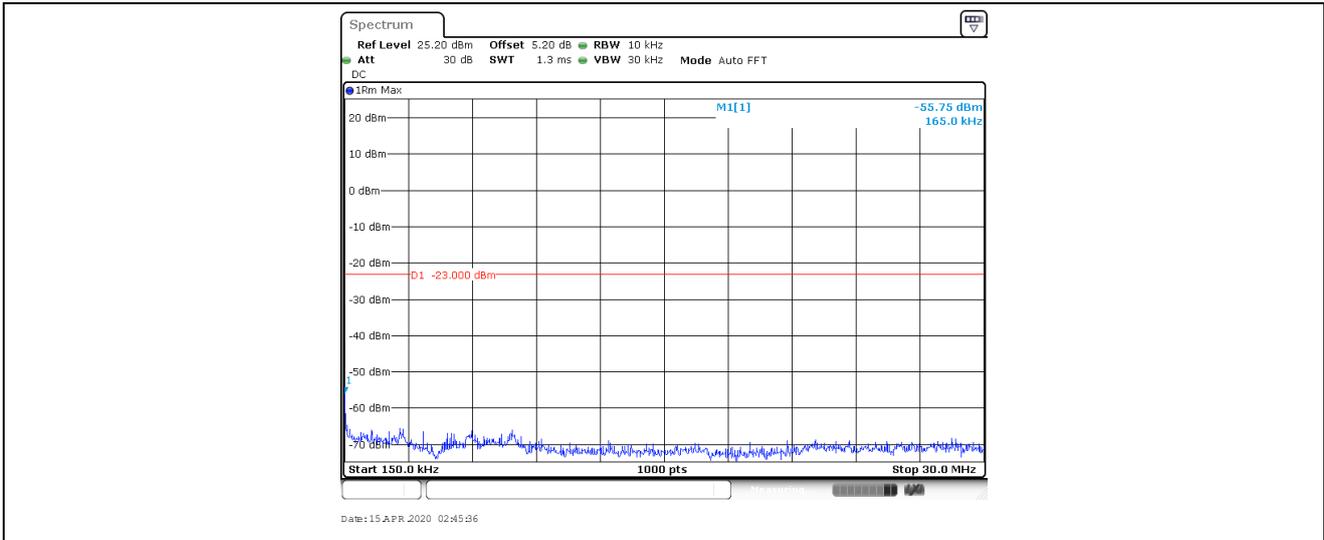
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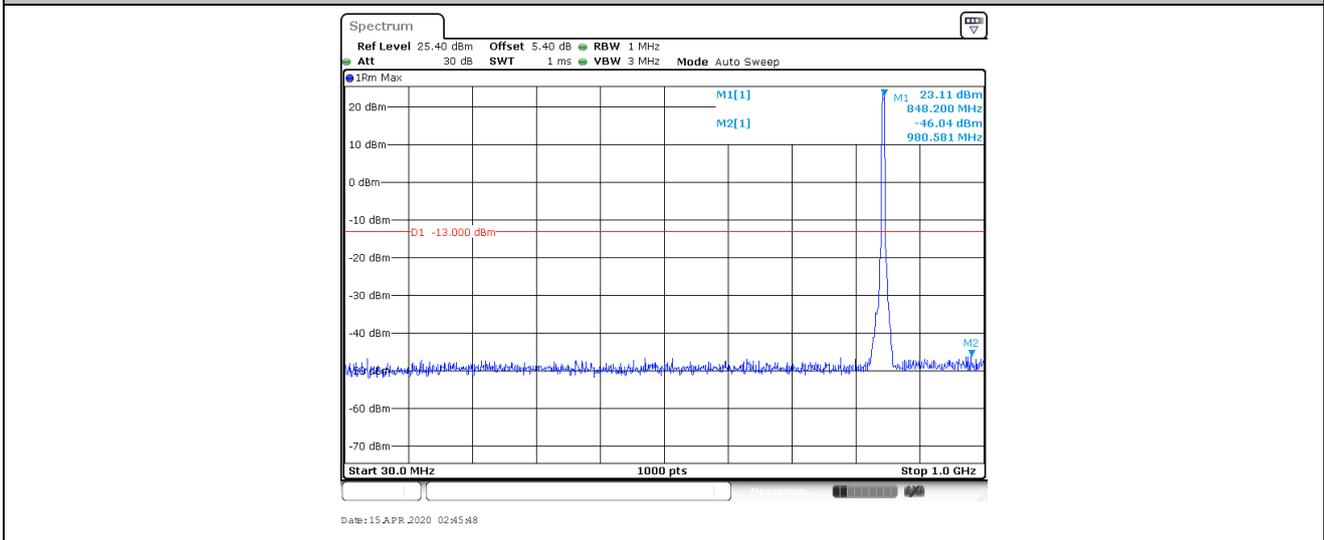
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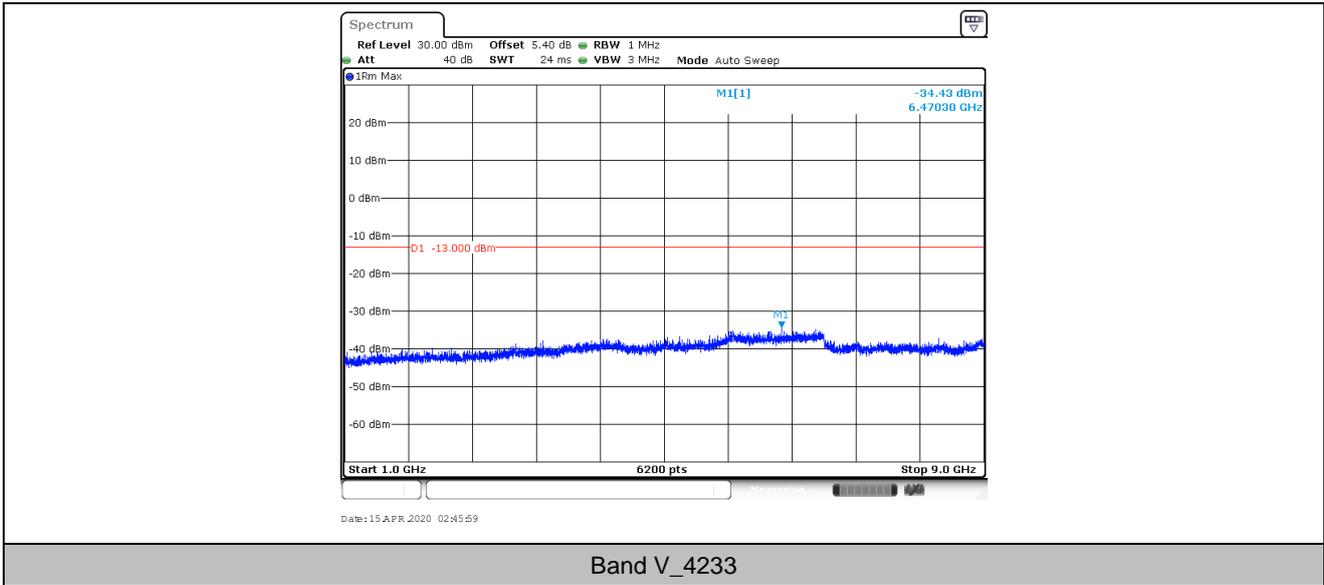


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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = WCDMA Band II (Down Ant)

#### 7.1.1. Test Mode = WCDMA/TM1

##### 7.1.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 109.0590        | -63.74      | -13.00           | 50.74       | Vertical     |
| 637.8324        | -63.52      | -13.00           | 50.52       | Vertical     |
| 2700.3401       | -36.59      | -13.00           | 23.59       | Vertical     |
| 7365.1455       | -54.83      | -13.00           | 41.83       | Vertical     |
| 14699.8900      | -46.73      | -13.00           | 33.73       | Vertical     |
| 17996.9999      | -38.55      | -13.00           | 25.55       | Vertical     |
| 41.9316         | -64.46      | -13.00           | 51.46       | Horizontal   |
| 559.8890        | -63.73      | -13.00           | 50.73       | Horizontal   |
| 2696.3393       | -35.33      | -13.00           | 22.33       | Horizontal   |
| 7446.1482       | -55.13      | -13.00           | 42.13       | Horizontal   |
| 16398.9466      | -42.36      | -13.00           | 29.36       | Horizontal   |
| 17996.4999      | -43.72      | -13.00           | 30.72       | Horizontal   |

##### 7.1.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 111.8236        | -64.96      | -13.00           | 51.96       | Vertical     |
| 601.6011        | -63.43      | -13.00           | 50.43       | Vertical     |
| 2695.1390       | -36.53      | -13.00           | 23.53       | Vertical     |
| 7485.1495       | -54.95      | -13.00           | 41.95       | Vertical     |
| 14457.8819      | -46.56      | -13.00           | 33.56       | Vertical     |
| 17995.9999      | -38.93      | -13.00           | 25.93       | Vertical     |
| 43.6292         | -64.26      | -13.00           | 51.26       | Horizontal   |
| 520.0685        | -65.92      | -13.00           | 52.92       | Horizontal   |



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|            |        |        |       |            |
|------------|--------|--------|-------|------------|
| 2693.9388  | -35.34 | -13.00 | 22.34 | Horizontal |
| 7457.6486  | -54.94 | -13.00 | 41.94 | Horizontal |
| 16355.4452 | -42.38 | -13.00 | 29.38 | Horizontal |
| 17998.5000 | -43.64 | -13.00 | 30.64 | Horizontal |

**7.1.1.3. Test Channel = HCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 109.2530        | -64.16      | -13.00           | 51.16       | Vertical     |
| 667.3704        | -63.53      | -13.00           | 50.53       | Vertical     |
| 2582.3165       | -34.48      | -13.00           | 21.48       | Vertical     |
| 7458.1486       | -54.59      | -13.00           | 41.59       | Vertical     |
| 14696.8899      | -45.82      | -13.00           | 32.82       | Vertical     |
| 17999.0000      | -38.58      | -13.00           | 25.58       | Vertical     |
| 44.9872         | -63.27      | -13.00           | 50.27       | Horizontal   |
| 617.1704        | -64.07      | -13.00           | 51.07       | Horizontal   |
| 2576.3153       | -32.16      | -13.00           | 19.16       | Horizontal   |
| 7239.6413       | -56.31      | -13.00           | 43.31       | Horizontal   |
| 16399.9467      | -42.62      | -13.00           | 29.62       | Horizontal   |
| 17994.9998      | -43.03      | -13.00           | 30.03       | Horizontal   |

**7.2. Test Band = WCDMA Band IV (Down Ant)**

**7.2.1. Test Mode = WCDMA/TM1**

**7.2.1.1. Test Channel = LCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 107.1674        | -64.19      | -13.00           | 51.19       | Vertical     |
| 581.4241        | -62.03      | -13.00           | 49.03       | Vertical     |
| 2696.7393       | -32.05      | -13.00           | 19.05       | Vertical     |
| 7116.1372       | -54.20      | -13.00           | 41.20       | Vertical     |
| 14724.8908      | -41.47      | -13.00           | 28.47       | Vertical     |
| 17999.0000      | -33.42      | -13.00           | 20.42       | Vertical     |



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|            |        |        |       |            |
|------------|--------|--------|-------|------------|
| 42.7561    | -61.65 | -13.00 | 48.65 | Horizontal |
| 562.6536   | -61.05 | -13.00 | 48.05 | Horizontal |
| 2698.7397  | -30.79 | -13.00 | 17.79 | Horizontal |
| 7460.1487  | -53.13 | -13.00 | 40.13 | Horizontal |
| 16391.4464 | -34.62 | -13.00 | 21.62 | Horizontal |
| 17994.9998 | -38.12 | -13.00 | 25.12 | Horizontal |

**7.2.1.2. Test Channel = MCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 117.2559        | -62.87      | -13.00           | 49.87       | Vertical     |
| 635.2133        | -61.27      | -13.00           | 48.27       | Vertical     |
| 2734.7469       | -32.30      | -13.00           | 19.30       | Vertical     |
| 7147.6383       | -53.76      | -13.00           | 40.76       | Vertical     |
| 14467.3822      | -42.20      | -13.00           | 29.20       | Vertical     |
| 17989.9997      | -33.52      | -13.00           | 20.52       | Vertical     |
| 40.9615         | -62.71      | -13.00           | 49.71       | Horizontal   |
| 237.8814        | -65.25      | -13.00           | 52.25       | Horizontal   |
| 2700.3401       | -30.54      | -13.00           | 17.54       | Horizontal   |
| 7325.1442       | -53.85      | -13.00           | 40.85       | Horizontal   |
| 16411.9471      | -35.16      | -13.00           | 22.16       | Horizontal   |
| 17986.4996      | -38.23      | -13.00           | 25.23       | Horizontal   |

**7.2.1.3. Test Channel = HCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 112.1146        | -62.69      | -13.00           | 49.69       | Vertical     |
| 598.9819        | -61.36      | -13.00           | 48.36       | Vertical     |
| 2697.5395       | -32.00      | -13.00           | 19.00       | Vertical     |
| 7240.6414       | -53.54      | -13.00           | 40.54       | Vertical     |
| 14690.8897      | -41.19      | -13.00           | 28.19       | Vertical     |
| 17989.4997      | -33.40      | -13.00           | 20.40       | Vertical     |
| 41.2041         | -63.48      | -13.00           | 50.48       | Horizontal   |



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|            |        |        |       |            |
|------------|--------|--------|-------|------------|
| 609.7495   | -60.72 | -13.00 | 47.72 | Horizontal |
| 2681.5363  | -31.10 | -13.00 | 18.10 | Horizontal |
| 7477.6493  | -53.02 | -13.00 | 40.02 | Horizontal |
| 16390.4463 | -34.91 | -13.00 | 21.91 | Horizontal |
| 17999.0000 | -37.98 | -13.00 | 24.98 | Horizontal |

### 7.3. Test Band = WCDMA Band V (Down Ant)

#### 7.3.1. Test Mode = WCDMA/TM1

##### 7.3.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 78.7449         | -68.52      | -13.00           | 55.52       | Vertical     |
| 107.9434        | -65.04      | -13.00           | 52.04       | Vertical     |
| 601.1161        | -64.16      | -13.00           | 51.16       | Vertical     |
| 3000.0000       | -55.61      | -13.00           | 42.61       | Vertical     |
| 7470.1490       | -55.02      | -13.00           | 42.02       | Vertical     |
| 17999.0000      | -39.55      | -13.00           | 26.55       | Vertical     |
| 46.0058         | -64.53      | -13.00           | 51.53       | Horizontal   |
| 234.0497        | -67.66      | -13.00           | 54.66       | Horizontal   |
| 599.0305        | -63.68      | -13.00           | 50.68       | Horizontal   |
| 2700.3401       | -55.18      | -13.00           | 42.18       | Horizontal   |
| 7445.6482       | -55.63      | -13.00           | 42.63       | Horizontal   |
| 16384.4461      | -43.01      | -13.00           | 30.01       | Horizontal   |

##### 7.3.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 79.9090         | -69.02      | -13.00           | 56.02       | Vertical     |
| 112.1631        | -64.31      | -13.00           | 51.31       | Vertical     |
| 443.4832        | -67.58      | -13.00           | 54.58       | Vertical     |
| 2999.5999       | -55.66      | -13.00           | 42.66       | Vertical     |
| 9067.2022       | -53.55      | -13.00           | 40.55       | Vertical     |



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|            |        |        |       |            |
|------------|--------|--------|-------|------------|
| 17999.0000 | -39.41 | -13.00 | 26.41 | Vertical   |
| 41.9316    | -64.87 | -13.00 | 51.87 | Horizontal |
| 239.7245   | -68.22 | -13.00 | 55.22 | Horizontal |
| 591.4641   | -63.71 | -13.00 | 50.71 | Horizontal |
| 2998.3997  | -55.79 | -13.00 | 42.79 | Horizontal |
| 7456.6486  | -55.74 | -13.00 | 42.74 | Horizontal |
| 16397.4466 | -43.08 | -13.00 | 30.08 | Horizontal |

**7.3.1.3. Test Channel = HCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 79.0845         | -68.17      | -13.00           | 55.17       | Vertical     |
| 115.4128        | -64.29      | -13.00           | 51.29       | Vertical     |
| 556.3483        | -66.11      | -13.00           | 53.11       | Vertical     |
| 2995.9992       | -55.72      | -13.00           | 42.72       | Vertical     |
| 8004.6668       | -55.02      | -13.00           | 42.02       | Vertical     |
| 17998.5000      | -39.16      | -13.00           | 26.16       | Vertical     |
| 39.6035         | -64.01      | -13.00           | 51.01       | Horizontal   |
| 231.1396        | -67.68      | -13.00           | 54.68       | Horizontal   |
| 573.4697        | -64.57      | -13.00           | 51.57       | Horizontal   |
| 997.6719        | -56.22      | -13.00           | 43.22       | Horizontal   |
| 3000.0000       | -55.67      | -13.00           | 42.67       | Horizontal   |
| 16388.4463      | -42.98      | -13.00           | 29.98       | Horizontal   |

**7.4. Test Band = WCDMA Band II (Up Ant)**

**7.4.1. Test Mode = WCDMA/TM1**

**7.4.1.1. Test Channel = LCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 51.7776         | -72.23      | -13.00           | 59.23       | Vertical     |
| 111.6296        | -64.77      | -13.00           | 51.77       | Vertical     |
| 565.6123        | -65.12      | -13.00           | 52.12       | Vertical     |



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|            |        |        |       |            |
|------------|--------|--------|-------|------------|
| 2703.1406  | -36.37 | -13.00 | 23.37 | Vertical   |
| 7447.6483  | -55.00 | -13.00 | 42.00 | Vertical   |
| 17997.4999 | -39.61 | -13.00 | 26.61 | Vertical   |
| 44.8902    | -65.19 | -13.00 | 52.19 | Horizontal |
| 229.1510   | -67.59 | -13.00 | 54.59 | Horizontal |
| 582.7821   | -63.73 | -13.00 | 50.73 | Horizontal |
| 2701.5403  | -35.36 | -13.00 | 22.36 | Horizontal |
| 9338.2113  | -51.92 | -13.00 | 38.92 | Horizontal |
| 16396.9466 | -42.88 | -13.00 | 29.88 | Horizontal |

**7.4.1.2. Test Channel = MCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 73.0702         | -69.21      | -13.00           | 56.21       | Vertical     |
| 108.2829        | -64.71      | -13.00           | 51.71       | Vertical     |
| 641.9551        | -63.21      | -13.00           | 50.21       | Vertical     |
| 2693.5387       | -36.63      | -13.00           | 23.63       | Vertical     |
| 6891.1297       | -57.60      | -13.00           | 44.60       | Vertical     |
| 17996.9999      | -39.42      | -13.00           | 26.42       | Vertical     |
| 43.9687         | -63.45      | -13.00           | 50.45       | Horizontal   |
| 248.1154        | -67.58      | -13.00           | 54.58       | Horizontal   |
| 638.0264        | -63.47      | -13.00           | 50.47       | Horizontal   |
| 2997.5995       | -37.70      | -13.00           | 24.70       | Horizontal   |
| 8704.1901       | -54.57      | -13.00           | 41.57       | Horizontal   |
| 16387.4462      | -43.18      | -13.00           | 30.18       | Horizontal   |

**7.4.1.3. Test Channel = HCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 77.5324         | -68.78      | -13.00           | 55.78       | Vertical     |
| 110.0775        | -65.24      | -13.00           | 52.24       | Vertical     |
| 607.7609        | -63.91      | -13.00           | 50.91       | Vertical     |
| 2701.1402       | -36.47      | -13.00           | 23.47       | Vertical     |



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|            |        |        |       |            |
|------------|--------|--------|-------|------------|
| 8838.1946  | -54.07 | -13.00 | 41.07 | Vertical   |
| 17997.4999 | -39.33 | -13.00 | 26.33 | Vertical   |
| 44.7932    | -64.75 | -13.00 | 51.75 | Horizontal |
| 251.8016   | -68.19 | -13.00 | 55.19 | Horizontal |
| 859.7795   | -60.89 | -13.00 | 47.89 | Horizontal |
| 2697.9396  | -35.32 | -13.00 | 22.32 | Horizontal |
| 7468.6490  | -55.41 | -13.00 | 42.41 | Horizontal |
| 17248.4749 | -43.93 | -13.00 | 30.93 | Horizontal |

## 7.5. Test Band = WCDMA Band IV (Up Ant)

### 7.5.1. Test Mode = WCDMA/TM1

#### 7.5.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 52.9902         | -70.29      | -13.00           | 57.29       | Vertical     |
| 112.7451        | -62.59      | -13.00           | 49.59       | Vertical     |
| 560.6165        | -62.90      | -13.00           | 49.90       | Vertical     |
| 2699.9400       | -32.01      | -13.00           | 19.01       | Vertical     |
| 7406.1469       | -52.62      | -13.00           | 39.62       | Vertical     |
| 17995.4999      | -33.68      | -13.00           | 20.68       | Vertical     |
| 44.1627         | -62.00      | -13.00           | 49.00       | Horizontal   |
| 243.5077        | -64.27      | -13.00           | 51.27       | Horizontal   |
| 626.2888        | -59.98      | -13.00           | 46.98       | Horizontal   |
| 2698.7397       | -30.59      | -13.00           | 17.59       | Horizontal   |
| 7458.1486       | -53.19      | -13.00           | 40.19       | Horizontal   |
| 16397.9466      | -35.08      | -13.00           | 22.08       | Horizontal   |

#### 7.5.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 69.2870         | -66.73      | -13.00           | 53.73       | Vertical     |
| 110.6110        | -62.40      | -13.00           | 49.40       | Vertical     |



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|            |        |        |       |            |
|------------|--------|--------|-------|------------|
| 559.0645   | -62.94 | -13.00 | 49.94 | Vertical   |
| 2698.3397  | -31.98 | -13.00 | 18.98 | Vertical   |
| 5180.0727  | -59.17 | -13.00 | 46.17 | Vertical   |
| 17993.9998 | -33.48 | -13.00 | 20.48 | Vertical   |
| 42.8531    | -61.90 | -13.00 | 48.90 | Horizontal |
| 236.9113   | -65.31 | -13.00 | 52.31 | Horizontal |
| 860.5555   | -57.99 | -13.00 | 44.99 | Horizontal |
| 2698.3397  | -30.86 | -13.00 | 17.86 | Horizontal |
| 7438.1479  | -53.19 | -13.00 | 40.19 | Horizontal |
| 16383.9461 | -35.30 | -13.00 | 22.30 | Horizontal |

### 7.5.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 57.4524         | -69.73      | -13.00           | 56.73       | Vertical     |
| 109.4955        | -62.29      | -13.00           | 49.29       | Vertical     |
| 591.0276        | -60.98      | -13.00           | 47.98       | Vertical     |
| 2857.1714       | -32.70      | -13.00           | 19.70       | Vertical     |
| 7998.1666       | -52.41      | -13.00           | 39.41       | Vertical     |
| 17993.4998      | -33.77      | -13.00           | 20.77       | Vertical     |
| 43.3382         | -62.81      | -13.00           | 49.81       | Horizontal   |
| 243.7017        | -64.64      | -13.00           | 51.64       | Horizontal   |
| 690.3120        | -59.96      | -13.00           | 46.96       | Horizontal   |
| 2695.1390       | -30.91      | -13.00           | 17.91       | Horizontal   |
| 7401.6467       | -52.54      | -13.00           | 39.54       | Horizontal   |
| 16391.4464      | -35.05      | -13.00           | 22.05       | Horizontal   |



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## 7.6. Test Band = WCDMA Band V (Up Ant)

### 7.6.1. Test Mode = WCDMA/TM1

#### 7.6.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 106.8278        | -65.15      | -13.00           | 52.15       | Vertical     |
| 539.3725        | -65.52      | -13.00           | 52.52       | Vertical     |
| 1679.3359       | -63.93      | -13.00           | 50.93       | Vertical     |
| 2703.9408       | -56.25      | -13.00           | 43.25       | Vertical     |
| 14691.3897      | -46.75      | -13.00           | 33.75       | Vertical     |
| 17996.9999      | -38.98      | -13.00           | 25.98       | Vertical     |
| 43.7747         | -64.44      | -13.00           | 51.44       | Horizontal   |
| 393.2832        | -67.82      | -13.00           | 54.82       | Horizontal   |
| 1624.9250       | -64.42      | -13.00           | 51.42       | Horizontal   |
| 2699.1398       | -55.09      | -13.00           | 42.09       | Horizontal   |
| 16379.9460      | -43.07      | -13.00           | 30.07       | Horizontal   |
| 17997.4999      | -43.06      | -13.00           | 30.06       | Horizontal   |

#### 7.6.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 114.4912        | -65.57      | -13.00           | 52.57       | Vertical     |
| 560.6650        | -65.77      | -13.00           | 52.77       | Vertical     |
| 1179.6359       | -62.31      | -13.00           | 49.31       | Vertical     |
| 2704.7409       | -56.32      | -13.00           | 43.32       | Vertical     |
| 14361.8787      | -46.96      | -13.00           | 33.96       | Vertical     |
| 17918.4973      | -40.42      | -13.00           | 27.42       | Vertical     |
| 42.5621         | -64.17      | -13.00           | 51.17       | Horizontal   |
| 467.4919        | -67.92      | -13.00           | 54.92       | Horizontal   |
| 1179.6359       | -63.31      | -13.00           | 50.31       | Horizontal   |
| 2721.5443       | -56.23      | -13.00           | 43.23       | Horizontal   |



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|            |        |        |       |            |
|------------|--------|--------|-------|------------|
| 16379.4460 | -42.52 | -13.00 | 29.52 | Horizontal |
| 17996.9999 | -43.10 | -13.00 | 30.10 | Horizontal |

**7.6.1.3. Test Channel = HCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 107.3614        | -64.64      | -13.00           | 51.64       | Vertical     |
| 532.0971        | -66.83      | -13.00           | 53.83       | Vertical     |
| 1179.6359       | -63.54      | -13.00           | 50.54       | Vertical     |
| 2694.7389       | -56.50      | -13.00           | 43.50       | Vertical     |
| 14452.8818      | -46.35      | -13.00           | 33.35       | Vertical     |
| 17999.5000      | -39.18      | -13.00           | 26.18       | Vertical     |
| 43.5322         | -63.46      | -13.00           | 50.46       | Horizontal   |
| 545.2898        | -64.56      | -13.00           | 51.56       | Horizontal   |
| 1176.8354       | -62.80      | -13.00           | 49.80       | Horizontal   |
| 2689.5379       | -55.26      | -13.00           | 42.26       | Horizontal   |
| 16379.9460      | -42.76      | -13.00           | 29.76       | Horizontal   |
| 17984.9995      | -43.93      | -13.00           | 30.93       | Horizontal   |

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

| Band    | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band II | 9262    | VL            | TN               | 11.69          | 0.006309        | ±2.5        | PASS    |
| Band II | 9262    | VN            | TN               | 11.31          | 0.006105        | ±2.5        | PASS    |
| Band II | 9262    | VH            | TN               | 11.49          | 0.006205        | ±2.5        | PASS    |
| Band II | 9400    | VL            | TN               | 12.16          | 0.006468        | ±2.5        | PASS    |
| Band II | 9400    | VN            | TN               | 12.67          | 0.006742        | ±2.5        | PASS    |
| Band II | 9400    | VH            | TN               | 11.86          | 0.006308        | ±2.5        | PASS    |
| Band II | 9538    | VL            | TN               | 8.13           | 0.004259        | ±2.5        | PASS    |
| Band II | 9538    | VN            | TN               | 8.95           | 0.004691        | ±2.5        | PASS    |
| Band II | 9538    | VH            | TN               | 9.39           | 0.004923        | ±2.5        | PASS    |
| Band IV | 1312    | VL            | TN               | 3.06           | 0.001788        | ±2.5        | PASS    |
| Band IV | 1312    | VN            | TN               | 6.27           | 0.003659        | ±2.5        | PASS    |
| Band IV | 1312    | VH            | TN               | 3.88           | 0.002264        | ±2.5        | PASS    |
| Band IV | 1413    | VL            | TN               | 5.61           | 0.003241        | ±2.5        | PASS    |
| Band IV | 1413    | VN            | TN               | 5.38           | 0.003104        | ±2.5        | PASS    |
| Band IV | 1413    | VH            | TN               | 6.33           | 0.003653        | ±2.5        | PASS    |
| Band IV | 1513    | VL            | TN               | 1.75           | 0.001000        | ±2.5        | PASS    |
| Band IV | 1513    | VN            | TN               | 2.61           | 0.001490        | ±2.5        | PASS    |
| Band IV | 1513    | VH            | TN               | 2.22           | 0.001265        | ±2.5        | PASS    |
| Band V  | 4132    | VL            | TN               | -0.69          | -0.000831       | ±2.5        | PASS    |
| Band V  | 4132    | VN            | TN               | -1.58          | -0.001913       | ±2.5        | PASS    |
| Band V  | 4132    | VH            | TN               | -0.21          | -0.000260       | ±2.5        | PASS    |
| Band V  | 4182    | VL            | TN               | -0.11          | -0.000128       | ±2.5        | PASS    |
| Band V  | 4182    | VN            | TN               | -0.34          | -0.000402       | ±2.5        | PASS    |
| Band V  | 4182    | VH            | TN               | -0.21          | -0.000248       | ±2.5        | PASS    |
| Band V  | 4233    | VL            | TN               | -0.36          | -0.000431       | ±2.5        | PASS    |
| Band V  | 4233    | VN            | TN               | 0.05           | 0.000059        | ±2.5        | PASS    |
| Band V  | 4233    | VH            | TN               | -1.04          | -0.001233       | ±2.5        | PASS    |

### 8.2. Frequency Vs Temperature

| Band    | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band II | 9262    | VN            | -30              | 9.78           | 0.005282        | ±2.5        | PASS    |
| Band II | 9262    | VN            | -20              | 11.94          | 0.006444        | ±2.5        | PASS    |
| Band II | 9262    | VN            | -10              | 11.77          | 0.006356        | ±2.5        | PASS    |
| Band II | 9262    | VN            | 0                | 12.59          | 0.006796        | ±2.5        | PASS    |
| Band II | 9262    | VN            | 10               | 9.27           | 0.005004        | ±2.5        | PASS    |
| Band II | 9262    | VN            | 20               | 11.71          | 0.006321        | ±2.5        | PASS    |



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|         |      |    |     |       |          |      |      |
|---------|------|----|-----|-------|----------|------|------|
| Band II | 9262 | VN | 30  | 11.30 | 0.006101 | ±2.5 | PASS |
| Band II | 9262 | VN | 40  | 11.22 | 0.006058 | ±2.5 | PASS |
| Band II | 9262 | VN | 50  | 11.42 | 0.006166 | ±2.5 | PASS |
| Band II | 9400 | VN | -30 | 11.54 | 0.006141 | ±2.5 | PASS |
| Band II | 9400 | VN | -20 | 12.84 | 0.006829 | ±2.5 | PASS |
| Band II | 9400 | VN | -10 | 11.89 | 0.006327 | ±2.5 | PASS |
| Band II | 9400 | VN | 0   | 11.17 | 0.005943 | ±2.5 | PASS |
| Band II | 9400 | VN | 10  | 11.06 | 0.005882 | ±2.5 | PASS |
| Band II | 9400 | VN | 20  | 13.04 | 0.006936 | ±2.5 | PASS |
| Band II | 9400 | VN | 30  | 12.39 | 0.006589 | ±2.5 | PASS |
| Band II | 9400 | VN | 40  | 11.82 | 0.006289 | ±2.5 | PASS |
| Band II | 9400 | VN | 50  | 11.87 | 0.006316 | ±2.5 | PASS |
| Band II | 9538 | VN | -30 | 9.93  | 0.005208 | ±2.5 | PASS |
| Band II | 9538 | VN | -20 | 8.03  | 0.004207 | ±2.5 | PASS |
| Band II | 9538 | VN | -10 | 10.59 | 0.005553 | ±2.5 | PASS |
| Band II | 9538 | VN | 0   | 9.58  | 0.005021 | ±2.5 | PASS |
| Band II | 9538 | VN | 10  | 9.51  | 0.004987 | ±2.5 | PASS |
| Band II | 9538 | VN | 20  | 10.01 | 0.005246 | ±2.5 | PASS |
| Band II | 9538 | VN | 30  | 9.03  | 0.004732 | ±2.5 | PASS |
| Band II | 9538 | VN | 40  | 9.52  | 0.004991 | ±2.5 | PASS |
| Band II | 9538 | VN | 50  | 9.58  | 0.005021 | ±2.5 | PASS |
| Band IV | 1312 | VN | -30 | 2.77  | 0.001616 | ±2.5 | PASS |
| Band IV | 1312 | VN | -20 | 6.12  | 0.003571 | ±2.5 | PASS |
| Band IV | 1312 | VN | -10 | 5.29  | 0.003091 | ±2.5 | PASS |
| Band IV | 1312 | VN | 0   | 5.49  | 0.003204 | ±2.5 | PASS |
| Band IV | 1312 | VN | 10  | 7.41  | 0.004327 | ±2.5 | PASS |
| Band IV | 1312 | VN | 20  | 4.49  | 0.002623 | ±2.5 | PASS |
| Band IV | 1312 | VN | 30  | 6.08  | 0.003550 | ±2.5 | PASS |
| Band IV | 1312 | VN | 40  | 4.29  | 0.002506 | ±2.5 | PASS |
| Band IV | 1312 | VN | 50  | 5.16  | 0.003012 | ±2.5 | PASS |
| Band IV | 1413 | VN | -30 | 5.02  | 0.002898 | ±2.5 | PASS |
| Band IV | 1413 | VN | -20 | 5.87  | 0.003389 | ±2.5 | PASS |
| Band IV | 1413 | VN | -10 | 6.26  | 0.003612 | ±2.5 | PASS |
| Band IV | 1413 | VN | 0   | 5.14  | 0.002968 | ±2.5 | PASS |
| Band IV | 1413 | VN | 10  | 5.14  | 0.002964 | ±2.5 | PASS |
| Band IV | 1413 | VN | 20  | 6.32  | 0.003645 | ±2.5 | PASS |
| Band IV | 1413 | VN | 30  | 6.59  | 0.003806 | ±2.5 | PASS |
| Band IV | 1413 | VN | 40  | 5.74  | 0.003315 | ±2.5 | PASS |
| Band IV | 1413 | VN | 50  | 6.07  | 0.003501 | ±2.5 | PASS |
| Band IV | 1513 | VN | -30 | 1.30  | 0.000743 | ±2.5 | PASS |
| Band IV | 1513 | VN | -20 | 1.55  | 0.000886 | ±2.5 | PASS |
| Band IV | 1513 | VN | -10 | 1.42  | 0.000808 | ±2.5 | PASS |
| Band IV | 1513 | VN | 0   | 1.34  | 0.000767 | ±2.5 | PASS |
| Band IV | 1513 | VN | 10  | 2.17  | 0.001241 | ±2.5 | PASS |
| Band IV | 1513 | VN | 20  | 1.83  | 0.001045 | ±2.5 | PASS |
| Band IV | 1513 | VN | 30  | 1.26  | 0.000718 | ±2.5 | PASS |
| Band IV | 1513 | VN | 40  | 0.89  | 0.000510 | ±2.5 | PASS |



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|         |      |    |     |       |           |      |      |
|---------|------|----|-----|-------|-----------|------|------|
| Band IV | 1513 | VN | 50  | 1.75  | 0.000996  | ±2.5 | PASS |
| Band V  | 4132 | VN | -30 | -0.06 | -0.000078 | ±2.5 | PASS |
| Band V  | 4132 | VN | -20 | -0.63 | -0.000762 | ±2.5 | PASS |
| Band V  | 4132 | VN | -10 | 0.01  | 0.000009  | ±2.5 | PASS |
| Band V  | 4132 | VN | 0   | -0.21 | -0.000251 | ±2.5 | PASS |
| Band V  | 4132 | VN | 10  | -1.04 | -0.001255 | ±2.5 | PASS |
| Band V  | 4132 | VN | 20  | -0.71 | -0.000857 | ±2.5 | PASS |
| Band V  | 4132 | VN | 30  | 0.06  | 0.000069  | ±2.5 | PASS |
| Band V  | 4132 | VN | 40  | -0.19 | -0.000234 | ±2.5 | PASS |
| Band V  | 4132 | VN | 50  | -0.11 | -0.000138 | ±2.5 | PASS |
| Band V  | 4182 | VN | -30 | 0.84  | 0.001001  | ±2.5 | PASS |
| Band V  | 4182 | VN | -20 | 0.65  | 0.000778  | ±2.5 | PASS |
| Band V  | 4182 | VN | -10 | -0.17 | -0.000205 | ±2.5 | PASS |
| Band V  | 4182 | VN | 0   | 0.45  | 0.000539  | ±2.5 | PASS |
| Band V  | 4182 | VN | 10  | -0.64 | -0.000761 | ±2.5 | PASS |
| Band V  | 4182 | VN | 20  | -0.04 | -0.000051 | ±2.5 | PASS |
| Band V  | 4182 | VN | 30  | -0.26 | -0.000308 | ±2.5 | PASS |
| Band V  | 4182 | VN | 40  | -0.25 | -0.000299 | ±2.5 | PASS |
| Band V  | 4182 | VN | 50  | 0.27  | 0.000325  | ±2.5 | PASS |
| Band V  | 4233 | VN | -30 | -0.73 | -0.000862 | ±2.5 | PASS |
| Band V  | 4233 | VN | -20 | -0.92 | -0.001090 | ±2.5 | PASS |
| Band V  | 4233 | VN | -10 | -1.09 | -0.001284 | ±2.5 | PASS |
| Band V  | 4233 | VN | 0   | -0.53 | -0.000625 | ±2.5 | PASS |
| Band V  | 4233 | VN | 10  | -0.73 | -0.000862 | ±2.5 | PASS |
| Band V  | 4233 | VN | 20  | -0.74 | -0.000870 | ±2.5 | PASS |
| Band V  | 4233 | VN | 30  | -0.33 | -0.000389 | ±2.5 | PASS |
| Band V  | 4233 | VN | 40  | -0.74 | -0.000879 | ±2.5 | PASS |
| Band V  | 4233 | VN | 50  | -1.04 | -0.001225 | ±2.5 | PASS |

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