

## Appendix G for KSCR2205000668AT-FCC WCDMA Band2

## 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Band2\_EIRP

## 1.1.1 Test Result

| Band: 2 |         |              |                 |                       |            |            |         |         |
|---------|---------|--------------|-----------------|-----------------------|------------|------------|---------|---------|
| ENV     | Mode    |              | Frequency (MHz) | Conducted Power (dBm) | Gain (dbi) | EIRP (dBm) |         | Verdict |
|         | Network | Subset       |                 |                       |            | Result     | Limit   |         |
| NTNV    | RMC     | 12.2kbps RMC | 1852.4          | 23.45                 | -0.56      | 22.89      | <=33.01 | Pass    |
|         |         |              | 1880            | 23.49                 | -0.56      | 22.93      | <=33.01 | Pass    |
|         |         |              | 1907.6          | 23.92                 | -0.56      | 23.36      | <=33.01 | Pass    |
|         | HSDPA   | Subtest 1    | 1852.4          | 21.59                 | -0.56      | 21.03      | <=33.01 | Pass    |
|         |         | Subtest 2    | 1852.4          | 21.64                 | -0.56      | 21.08      | <=33.01 | Pass    |
|         |         | Subtest 3    | 1852.4          | 21.63                 | -0.56      | 21.07      | <=33.01 | Pass    |
|         |         | Subtest 4    | 1852.4          | 21.57                 | -0.56      | 21.01      | <=33.01 | Pass    |
|         |         | Subtest 1    | 1880            | 21.50                 | -0.56      | 20.94      | <=33.01 | Pass    |
|         |         | Subtest 2    | 1880            | 21.50                 | -0.56      | 20.94      | <=33.01 | Pass    |
|         |         | Subtest 3    | 1880            | 21.49                 | -0.56      | 20.93      | <=33.01 | Pass    |
|         |         | Subtest 4    | 1880            | 21.42                 | -0.56      | 20.86      | <=33.01 | Pass    |
|         |         | Subtest 1    | 1907.6          | 21.78                 | -0.56      | 21.22      | <=33.01 | Pass    |
|         |         | Subtest 2    | 1907.6          | 21.80                 | -0.56      | 21.24      | <=33.01 | Pass    |
|         |         | Subtest 3    | 1907.6          | 21.78                 | -0.56      | 21.22      | <=33.01 | Pass    |
|         |         | Subtest 4    | 1907.6          | 21.74                 | -0.56      | 21.18      | <=33.01 | Pass    |
|         | HSUPA   | Subtest 1    | 1852.4          | 19.74                 | -0.56      | 19.18      | <=33.01 | Pass    |
|         |         | Subtest 2    | 1852.4          | 19.50                 | -0.56      | 18.94      | <=33.01 | Pass    |
|         |         | Subtest 3    | 1852.4          | 19.83                 | -0.56      | 19.27      | <=33.01 | Pass    |
|         |         | Subtest 4    | 1852.4          | 19.02                 | -0.56      | 18.46      | <=33.01 | Pass    |
|         |         | Subtest 5    | 1852.4          | 19.62                 | -0.56      | 19.06      | <=33.01 | Pass    |
|         |         | Subtest 1    | 1880            | 19.66                 | -0.56      | 19.10      | <=33.01 | Pass    |
|         |         | Subtest 2    | 1880            | 19.01                 | -0.56      | 18.45      | <=33.01 | Pass    |
|         |         | Subtest 3    | 1880            | 19.48                 | -0.56      | 18.92      | <=33.01 | Pass    |
|         |         | Subtest 4    | 1880            | 19.05                 | -0.56      | 18.49      | <=33.01 | Pass    |
|         |         | Subtest 5    | 1880            | 19.53                 | -0.56      | 18.97      | <=33.01 | Pass    |
|         |         | Subtest 1    | 1907.6          | 19.53                 | -0.56      | 18.97      | <=33.01 | Pass    |
|         |         | Subtest 2    | 1907.6          | 19.25                 | -0.56      | 18.69      | <=33.01 | Pass    |
|         |         | Subtest 3    | 1907.6          | 19.08                 | -0.56      | 18.52      | <=33.01 | Pass    |
|         |         | Subtest 4    | 1907.6          | 19.96                 | -0.56      | 19.40      | <=33.01 | Pass    |
|         |         | Subtest 5    | 1907.6          | 19.77                 | -0.56      | 19.21      | <=33.01 | Pass    |

Note1: EIRP=Conducted Power+Antenna Gain

## 2. Frequency Stability

## 2.1 Band2

## 2.1.1 Test Result



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| Band: 2 |                 |            |               |                  |                       |             |         |
|---------|-----------------|------------|---------------|------------------|-----------------------|-------------|---------|
| Network | Frequency (MHz) | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|         |                 |            |               |                  | Result                | Limit       |         |
| RMC     | 1852.4          | 20         | 3.46          | -10.450          | -0.0056               | -2.5 to 2.5 | Pass    |
|         |                 |            | 3.8           | -11.408          | -0.0062               | -2.5 to 2.5 | Pass    |
|         |                 |            | 4.35          | -12.925          | -0.0070               | -2.5 to 2.5 | Pass    |
|         |                 | -30        | 3.8           | -14.527          | -0.0078               | -2.5 to 2.5 | Pass    |
|         |                 | -20        | 3.8           | -12.445          | -0.0067               | -2.5 to 2.5 | Pass    |
|         |                 | -10        | 3.8           | -12.710          | -0.0069               | -2.5 to 2.5 | Pass    |
|         |                 | 0          | 3.8           | -14.033          | -0.0076               | -2.5 to 2.5 | Pass    |
|         |                 | 10         | 3.8           | -13.318          | -0.0072               | -2.5 to 2.5 | Pass    |
|         |                 | 30         | 3.8           | -12.689          | -0.0069               | -2.5 to 2.5 | Pass    |
|         |                 | 40         | 3.8           | -12.932          | -0.0070               | -2.5 to 2.5 | Pass    |
|         |                 | 50         | 3.8           | -13.390          | -0.0072               | -2.5 to 2.5 | Pass    |
|         | 1880            | 20         | 3.46          | -10.300          | -0.0055               | -2.5 to 2.5 | Pass    |
|         |                 |            | 3.8           | -12.481          | -0.0066               | -2.5 to 2.5 | Pass    |
|         |                 |            | 4.35          | -13.962          | -0.0074               | -2.5 to 2.5 | Pass    |
|         |                 | -30        | 3.8           | -12.896          | -0.0069               | -2.5 to 2.5 | Pass    |
|         |                 | -20        | 3.8           | -9.592           | -0.0051               | -2.5 to 2.5 | Pass    |
|         |                 | -10        | 3.8           | -10.185          | -0.0054               | -2.5 to 2.5 | Pass    |
|         |                 | 0          | 3.8           | -10.865          | -0.0058               | -2.5 to 2.5 | Pass    |
|         |                 | 10         | 3.8           | -12.674          | -0.0067               | -2.5 to 2.5 | Pass    |
|         |                 | 30         | 3.8           | -13.032          | -0.0069               | -2.5 to 2.5 | Pass    |
|         |                 | 40         | 3.8           | -13.003          | -0.0069               | -2.5 to 2.5 | Pass    |
|         |                 | 50         | 3.8           | -14.505          | -0.0077               | -2.5 to 2.5 | Pass    |
|         | 1907.6          | 20         | 3.46          | -14.334          | -0.0075               | -2.5 to 2.5 | Pass    |
|         |                 |            | 3.8           | -13.497          | -0.0071               | -2.5 to 2.5 | Pass    |
|         |                 |            | 4.35          | -15.957          | -0.0084               | -2.5 to 2.5 | Pass    |
|         |                 | -30        | 3.8           | -9.356           | -0.0049               | -2.5 to 2.5 | Pass    |
|         |                 | -20        | 3.8           | -11.365          | -0.0060               | -2.5 to 2.5 | Pass    |
|         |                 | -10        | 3.8           | -12.503          | -0.0066               | -2.5 to 2.5 | Pass    |
|         |                 | 0          | 3.8           | -11.687          | -0.0061               | -2.5 to 2.5 | Pass    |
|         |                 | 10         | 3.8           | -12.567          | -0.0066               | -2.5 to 2.5 | Pass    |
|         |                 | 30         | 3.8           | -12.667          | -0.0066               | -2.5 to 2.5 | Pass    |
|         |                 | 40         | 3.8           | -13.726          | -0.0072               | -2.5 to 2.5 | Pass    |
| HSDPA   | 1852.4          | 20         | 3.46          | -13.053          | -0.0070               | -2.5 to 2.5 | Pass    |
|         |                 |            | 3.8           | -11.680          | -0.0063               | -2.5 to 2.5 | Pass    |
|         |                 |            | 4.35          | -10.557          | -0.0057               | -2.5 to 2.5 | Pass    |
|         |                 | -30        | 3.8           | -9.248           | -0.0050               | -2.5 to 2.5 | Pass    |
|         |                 | -20        | 3.8           | -9.298           | -0.0050               | -2.5 to 2.5 | Pass    |
|         |                 | -10        | 3.8           | -9.913           | -0.0054               | -2.5 to 2.5 | Pass    |
|         |                 | 0          | 3.8           | -6.666           | -0.0036               | -2.5 to 2.5 | Pass    |
|         |                 | 10         | 3.8           | -7.846           | -0.0042               | -2.5 to 2.5 | Pass    |
|         |                 | 30         | 3.8           | -10.793          | -0.0058               | -2.5 to 2.5 | Pass    |
|         |                 | 40         | 3.8           | -12.445          | -0.0067               | -2.5 to 2.5 | Pass    |
|         |                 | 50         | 3.8           | -6.552           | -0.0035               | -2.5 to 2.5 | Pass    |
|         | 1880            | 20         | 3.46          | -14.770          | -0.0079               | -2.5 to 2.5 | Pass    |
|         |                 |            | 3.8           | -13.254          | -0.0071               | -2.5 to 2.5 | Pass    |
|         |                 |            | 4.35          | -14.455          | -0.0077               | -2.5 to 2.5 | Pass    |
|         |                 | -30        | 3.8           | -13.397          | -0.0071               | -2.5 to 2.5 | Pass    |
|         |                 | -20        | 3.8           | -13.361          | -0.0071               | -2.5 to 2.5 | Pass    |
|         |                 | -10        | 3.8           | -14.076          | -0.0075               | -2.5 to 2.5 | Pass    |
|         |                 | 0          | 3.8           | -13.719          | -0.0073               | -2.5 to 2.5 | Pass    |

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|       |        |     |      |         |         |             |      |
|-------|--------|-----|------|---------|---------|-------------|------|
|       |        | 10  | 3.8  | -11.680 | -0.0062 | -2.5 to 2.5 | Pass |
|       |        | 30  | 3.8  | -13.025 | -0.0069 | -2.5 to 2.5 | Pass |
|       |        | 40  | 3.8  | -10.364 | -0.0055 | -2.5 to 2.5 | Pass |
|       |        | 50  | 3.8  | -10.822 | -0.0058 | -2.5 to 2.5 | Pass |
|       | 1907.6 | 20  | 3.46 | -17.080 | -0.0090 | -2.5 to 2.5 | Pass |
|       |        |     | 3.8  | -18.890 | -0.0099 | -2.5 to 2.5 | Pass |
|       |        |     | 4.35 | -17.402 | -0.0091 | -2.5 to 2.5 | Pass |
|       |        | -30 | 3.8  | -20.270 | -0.0106 | -2.5 to 2.5 | Pass |
|       |        | -20 | 3.8  | -17.023 | -0.0089 | -2.5 to 2.5 | Pass |
|       |        | -10 | 3.8  | -18.439 | -0.0097 | -2.5 to 2.5 | Pass |
|       |        | 0   | 3.8  | -15.728 | -0.0082 | -2.5 to 2.5 | Pass |
|       |        | 10  | 3.8  | -19.577 | -0.0103 | -2.5 to 2.5 | Pass |
|       |        | 30  | 3.8  | -20.864 | -0.0109 | -2.5 to 2.5 | Pass |
|       |        | 40  | 3.8  | -13.847 | -0.0073 | -2.5 to 2.5 | Pass |
|       |        | 50  | 3.8  | -18.382 | -0.0096 | -2.5 to 2.5 | Pass |
| HSUPA | 1852.4 | 20  | 3.46 | -14.105 | -0.0076 | -2.5 to 2.5 | Pass |
|       |        |     | 3.8  | -15.886 | -0.0086 | -2.5 to 2.5 | Pass |
|       |        |     | 4.35 | -15.872 | -0.0086 | -2.5 to 2.5 | Pass |
|       |        | -30 | 3.8  | -15.528 | -0.0084 | -2.5 to 2.5 | Pass |
|       |        | -20 | 3.8  | -14.584 | -0.0079 | -2.5 to 2.5 | Pass |
|       |        | -10 | 3.8  | -14.963 | -0.0081 | -2.5 to 2.5 | Pass |
|       |        | 0   | 3.8  | -16.129 | -0.0087 | -2.5 to 2.5 | Pass |
|       |        | 10  | 3.8  | -14.577 | -0.0079 | -2.5 to 2.5 | Pass |
|       |        | 30  | 3.8  | -13.819 | -0.0075 | -2.5 to 2.5 | Pass |
|       |        | 40  | 3.8  | -14.133 | -0.0076 | -2.5 to 2.5 | Pass |
|       |        | 50  | 3.8  | -14.849 | -0.0080 | -2.5 to 2.5 | Pass |
|       | 1880   | 20  | 3.46 | -9.062  | -0.0048 | -2.5 to 2.5 | Pass |
|       |        |     | 3.8  | -5.114  | -0.0027 | -2.5 to 2.5 | Pass |
|       |        |     | 4.35 | -9.520  | -0.0051 | -2.5 to 2.5 | Pass |
|       |        | -30 | 3.8  | -9.184  | -0.0049 | -2.5 to 2.5 | Pass |
|       |        | -20 | 3.8  | -10.021 | -0.0053 | -2.5 to 2.5 | Pass |
|       |        | -10 | 3.8  | -10.307 | -0.0055 | -2.5 to 2.5 | Pass |
|       |        | 0   | 3.8  | -12.724 | -0.0068 | -2.5 to 2.5 | Pass |
|       |        | 10  | 3.8  | -11.065 | -0.0059 | -2.5 to 2.5 | Pass |
|       |        | 30  | 3.8  | -11.337 | -0.0060 | -2.5 to 2.5 | Pass |
|       |        | 40  | 3.8  | -13.182 | -0.0070 | -2.5 to 2.5 | Pass |
|       |        | 50  | 3.8  | -14.784 | -0.0079 | -2.5 to 2.5 | Pass |
|       | 1907.6 | 20  | 3.46 | -13.847 | -0.0073 | -2.5 to 2.5 | Pass |
|       |        |     | 3.8  | -14.899 | -0.0078 | -2.5 to 2.5 | Pass |
|       |        |     | 4.35 | -12.603 | -0.0066 | -2.5 to 2.5 | Pass |
|       |        | -30 | 3.8  | -12.081 | -0.0063 | -2.5 to 2.5 | Pass |
|       |        | -20 | 3.8  | -11.895 | -0.0062 | -2.5 to 2.5 | Pass |
|       |        | -10 | 3.8  | -12.946 | -0.0068 | -2.5 to 2.5 | Pass |
|       |        | 0   | 3.8  | -15.364 | -0.0081 | -2.5 to 2.5 | Pass |
|       |        | 10  | 3.8  | -14.355 | -0.0075 | -2.5 to 2.5 | Pass |
|       |        | 30  | 3.8  | -12.510 | -0.0066 | -2.5 to 2.5 | Pass |
|       |        | 40  | 3.8  | -10.936 | -0.0057 | -2.5 to 2.5 | Pass |
|       |        | 50  | 3.8  | -12.052 | -0.0063 | -2.5 to 2.5 | Pass |

## 3. Modulation Characteristics

### 3.1 Band2



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## 3.1.1 Test Result

| Band: 2 |         |              |                    |                            |       |
|---------|---------|--------------|--------------------|----------------------------|-------|
| ENV     | Mode    |              | Frequency<br>(MHz) | Modulation Characteristics |       |
|         | Network | Subset       |                    | Result                     | Limit |
| NTNV    | RMC     | 12.2kbps RMC | 1880               | Refer To Test Graph        | Pass  |
|         | HSDPA   | Subtest 1    | 1880               | Refer To Test Graph        | Pass  |
|         | HSUPA   | Subtest 1    | 1880               | Refer To Test Graph        | Pass  |

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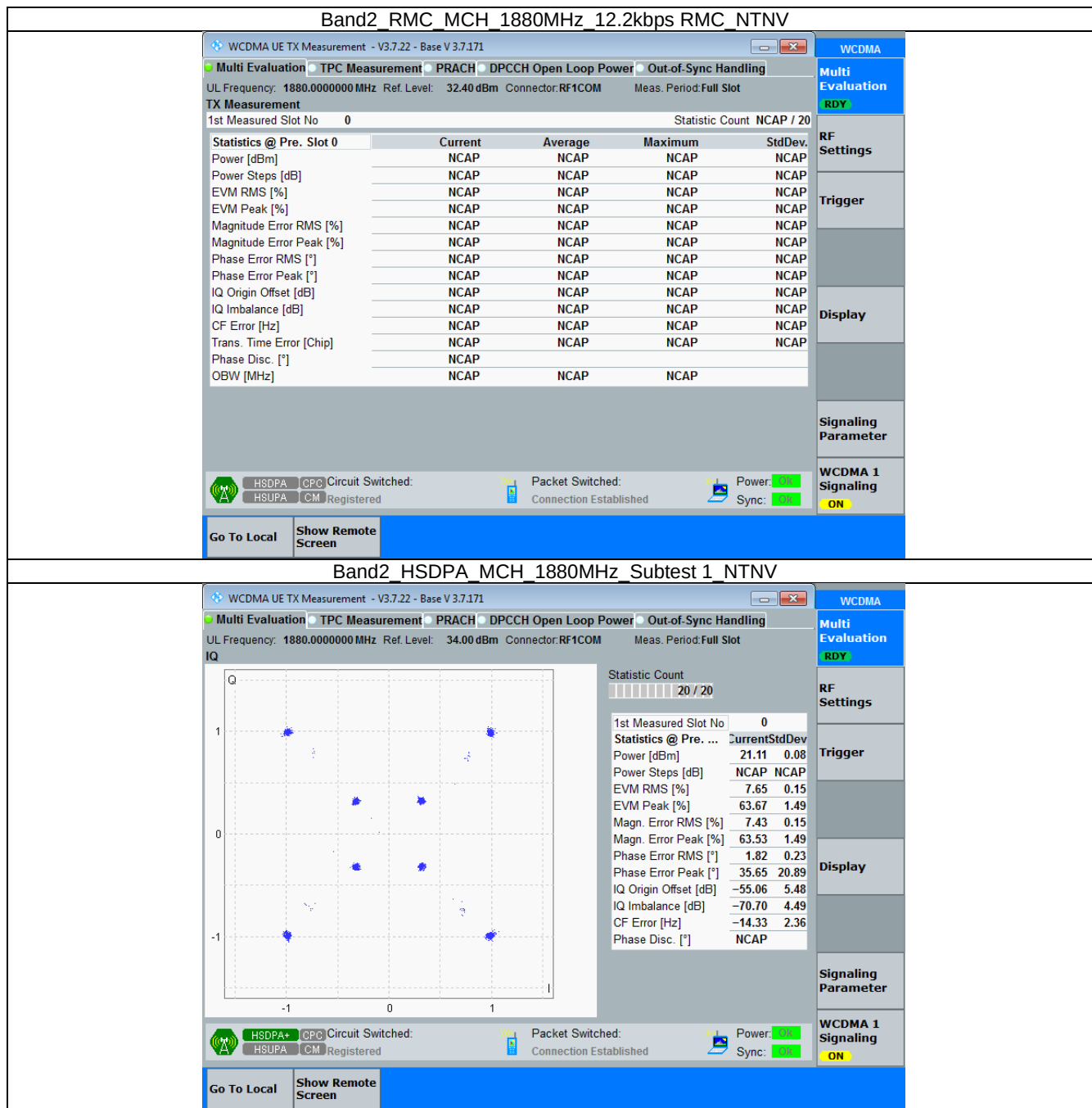
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## 3.1.2 Test Graph



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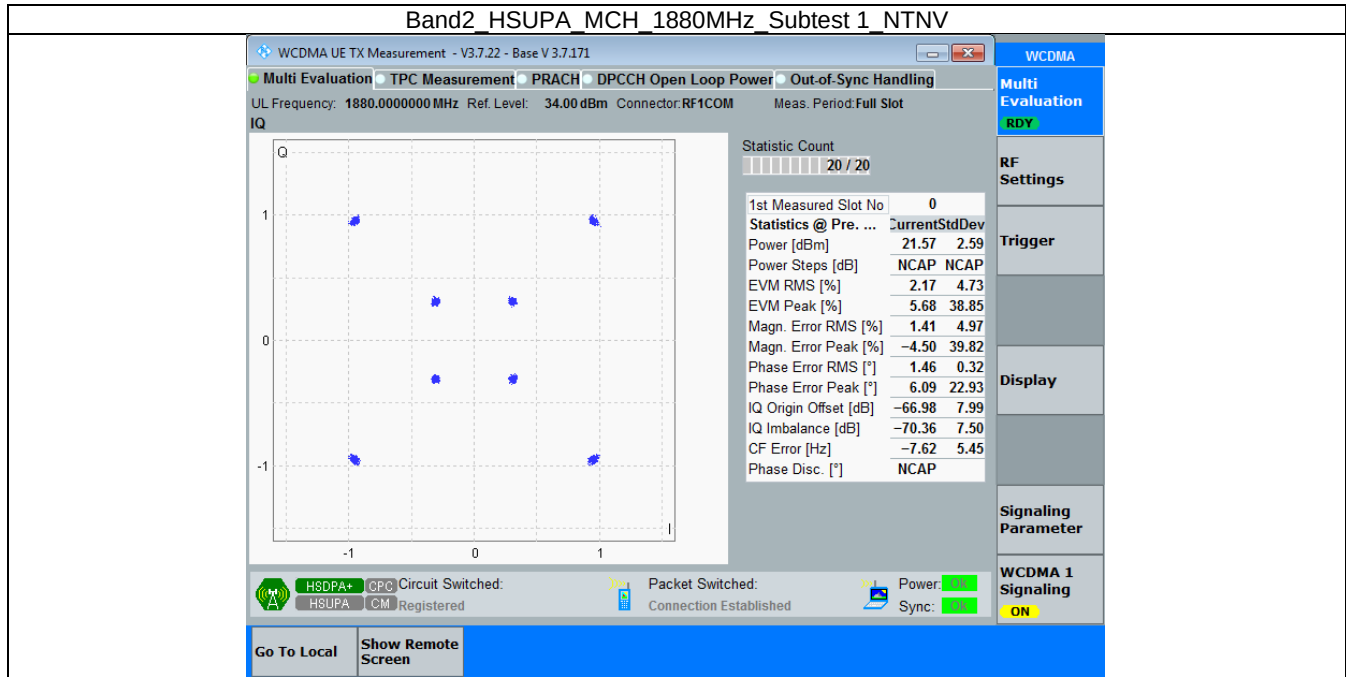
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## 4. 99% & 26dB Bandwidth

### 4.1 Band2\_OBW

#### 4.1.1 Test Result

| Band: 2 |         |              |                 |                              |         |
|---------|---------|--------------|-----------------|------------------------------|---------|
| ENV     | Mode    |              | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Verdict |
|         | Network | Subset       |                 | Result                       |         |
| NTNV    | RMC     | 12.2kbps RMC | 1852.4          | 4.178                        | Pass    |
|         |         |              | 1880            | 4.180                        | Pass    |
|         |         |              | 1907.6          | 4.185                        | Pass    |
|         | HSDPA   | Subtest 1    | 1852.4          | 4.242                        | Pass    |
|         |         |              | 1880            | 4.229                        | Pass    |
|         |         |              | 1907.6          | 4.227                        | Pass    |
|         | HSUPA   | Subtest 1    | 1852.4          | 4.224                        | Pass    |
|         |         |              | 1880            | 4.247                        | Pass    |
|         |         |              | 1907.6          | 4.211                        | Pass    |



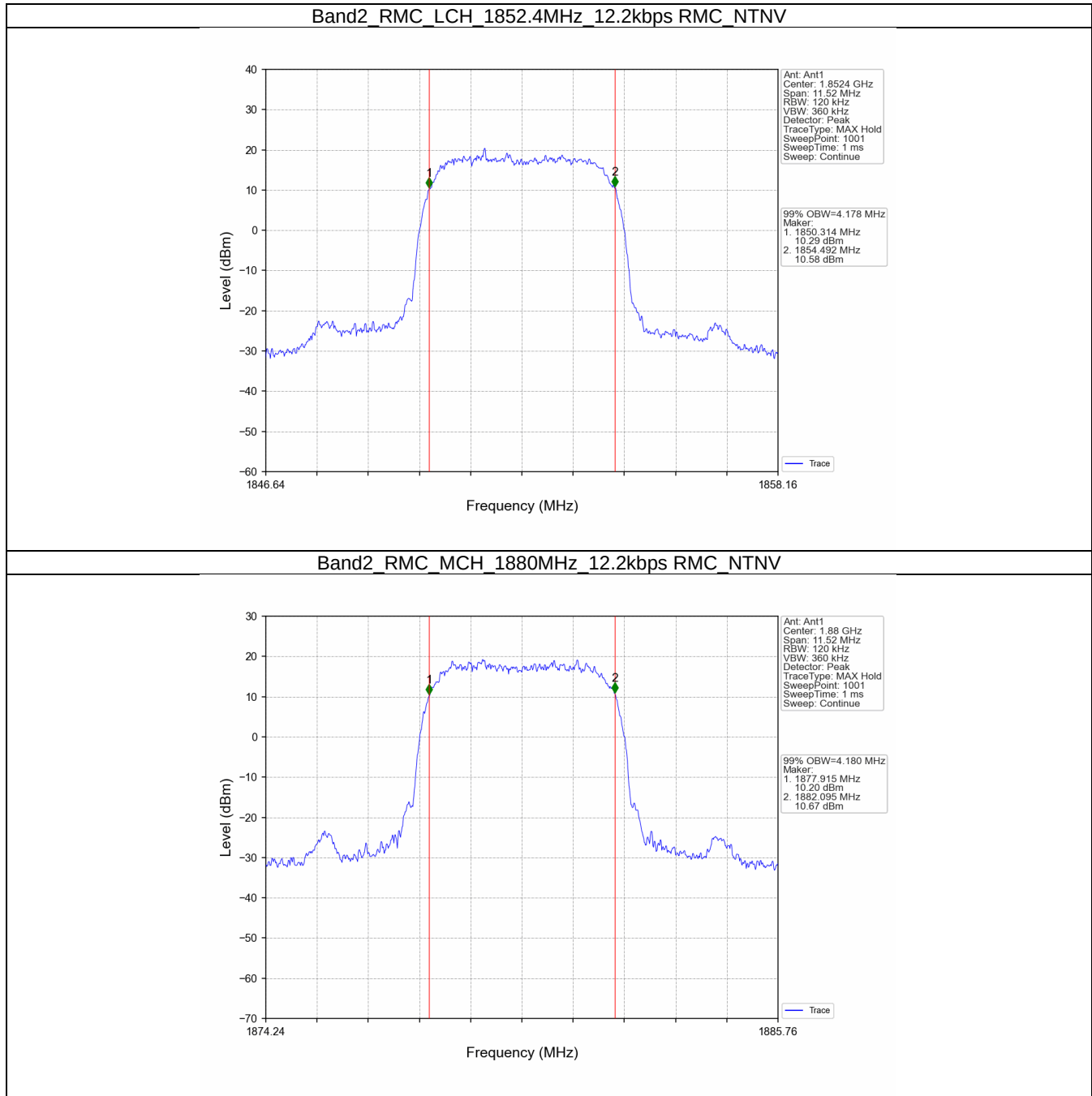
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### 4.1.2 Test Graph



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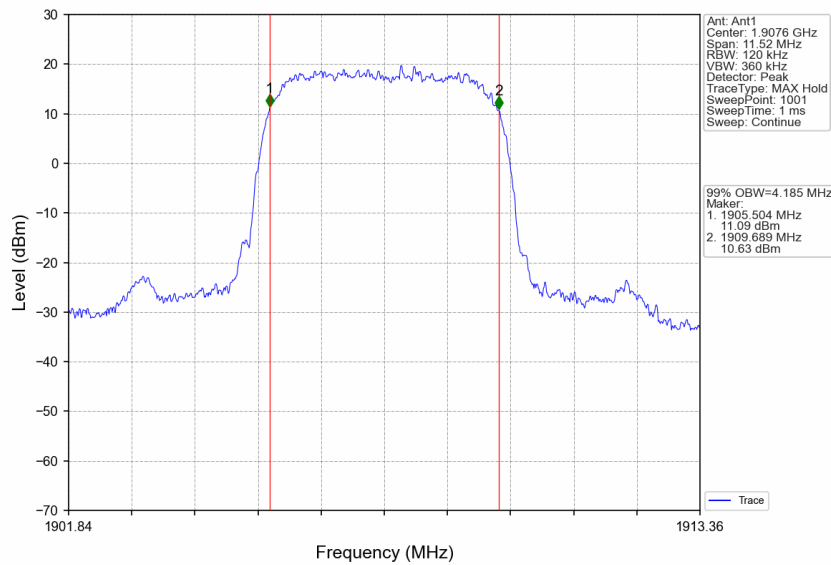
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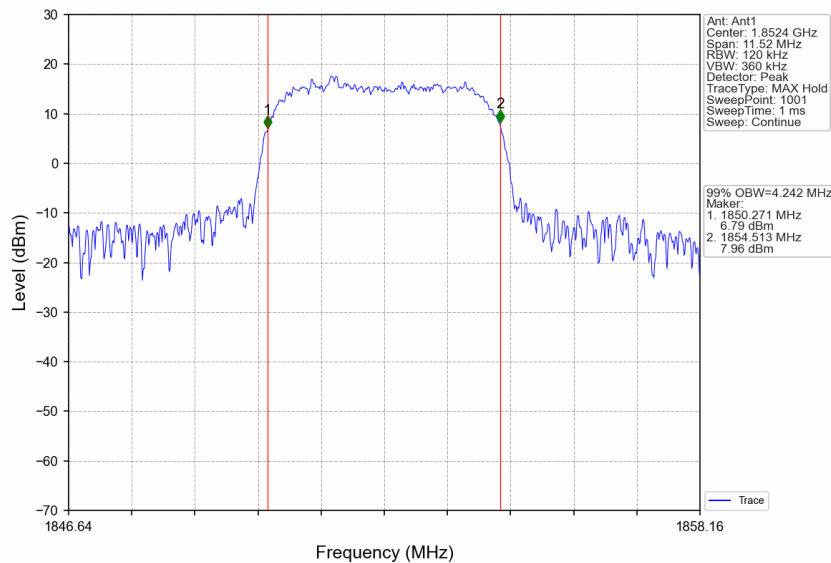
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Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



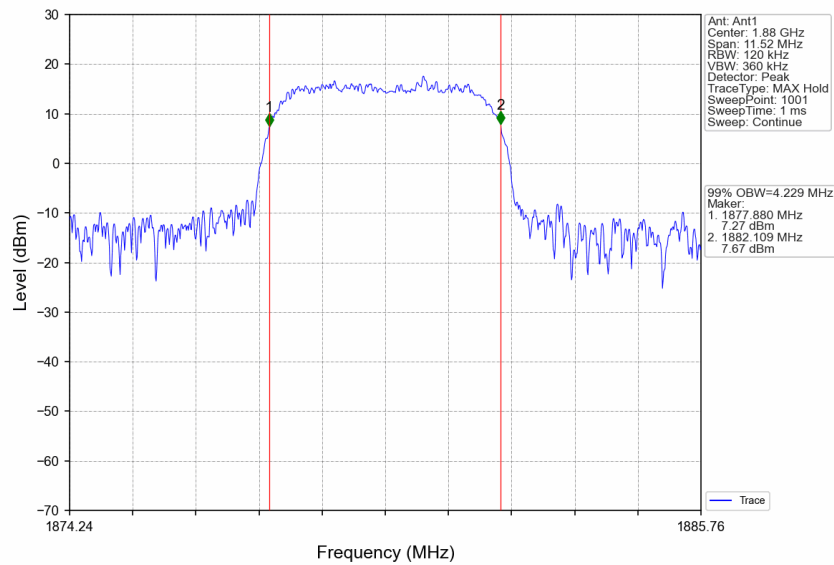
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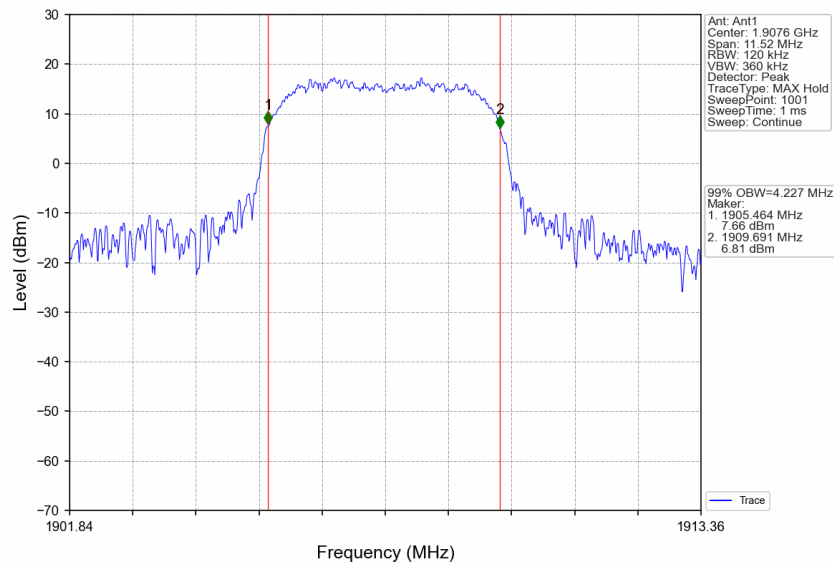
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Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



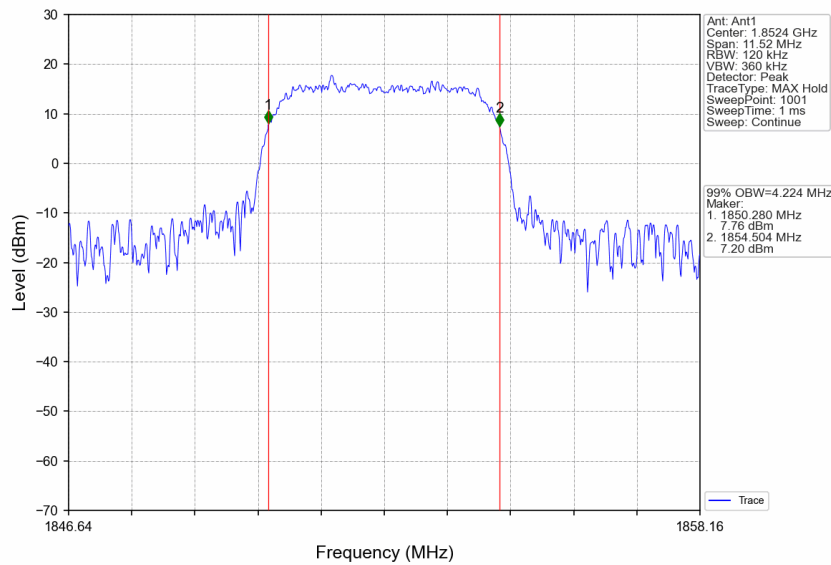
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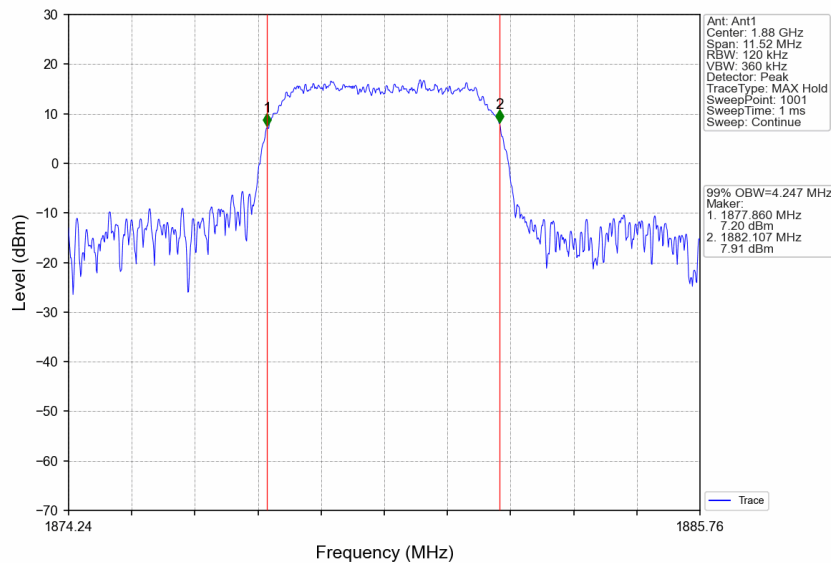
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Band2\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



Band2\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV



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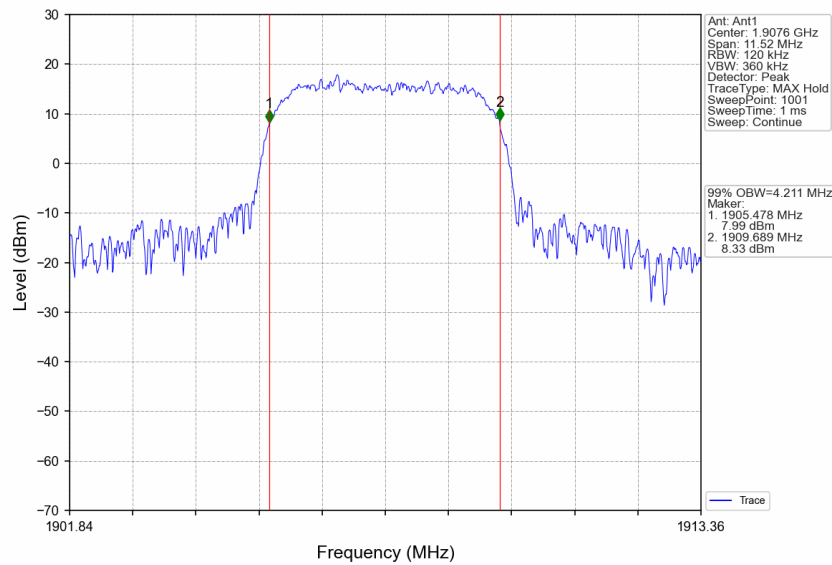
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## 4.2 Band2\_XDB

### 4.2.1 Test Result

| Band: 2 |         |              |                 |                      |         |
|---------|---------|--------------|-----------------|----------------------|---------|
| ENV     | Mode    |              | Frequency (MHz) | 26dB Bandwidth (MHz) | Verdict |
|         | Network | Subset       |                 | Result               |         |
| NTNV    | RMC     | 12.2kbps RMC | 1852.4          | 4.729                | Pass    |
|         |         |              | 1880            | 4.748                | Pass    |
|         |         |              | 1907.6          | 4.749                | Pass    |
|         | HSDPA   | Subtest 1    | 1852.4          | 5.267                | Pass    |
|         |         |              | 1880            | 5.871                | Pass    |
|         |         |              | 1907.6          | 5.210                | Pass    |
|         | HSUPA   | Subtest 1    | 1852.4          | 5.375                | Pass    |
|         |         |              | 1880            | 6.156                | Pass    |
|         |         |              | 1907.6          | 5.156                | Pass    |



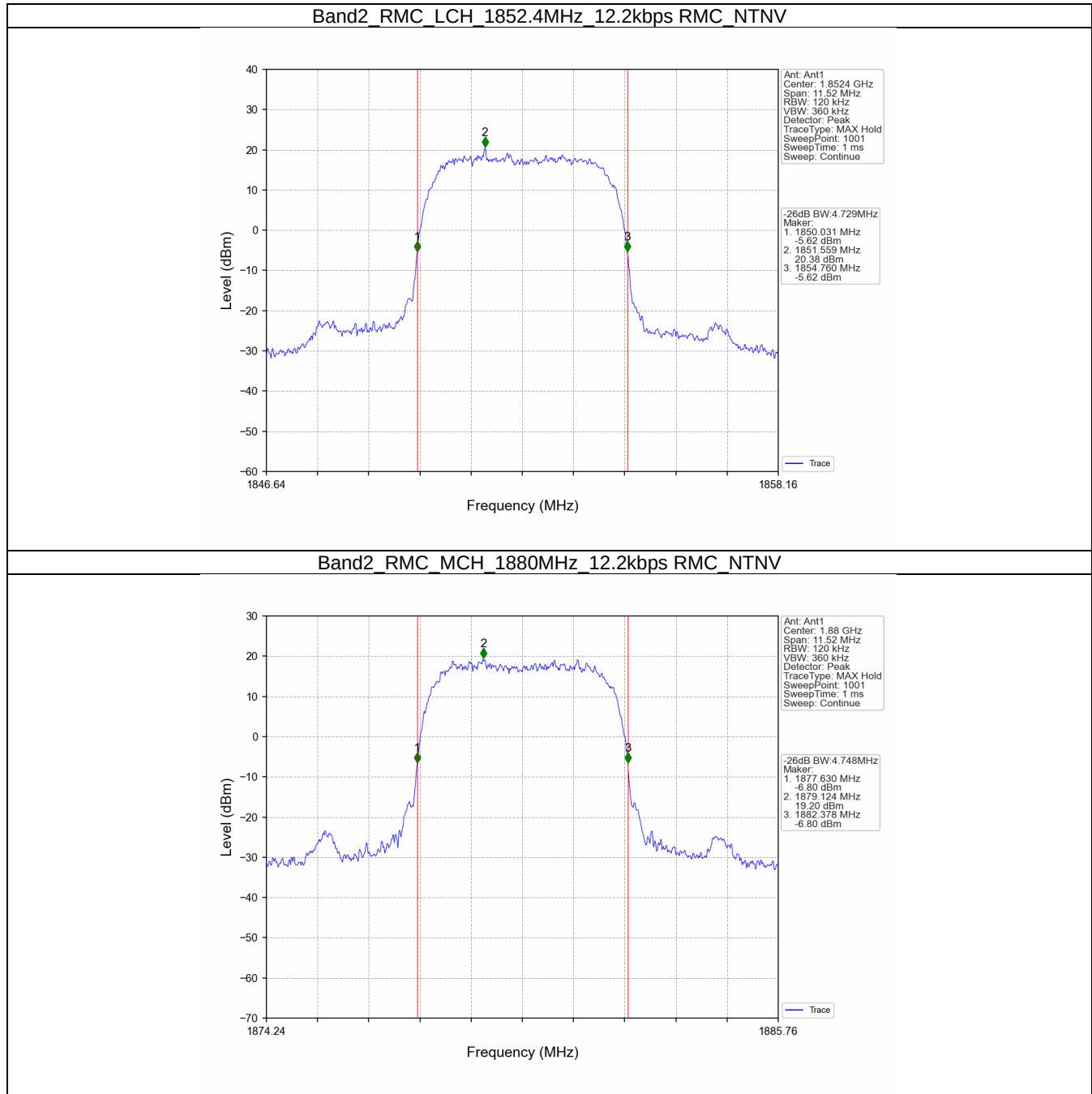
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## 4.2.2 Test Graph



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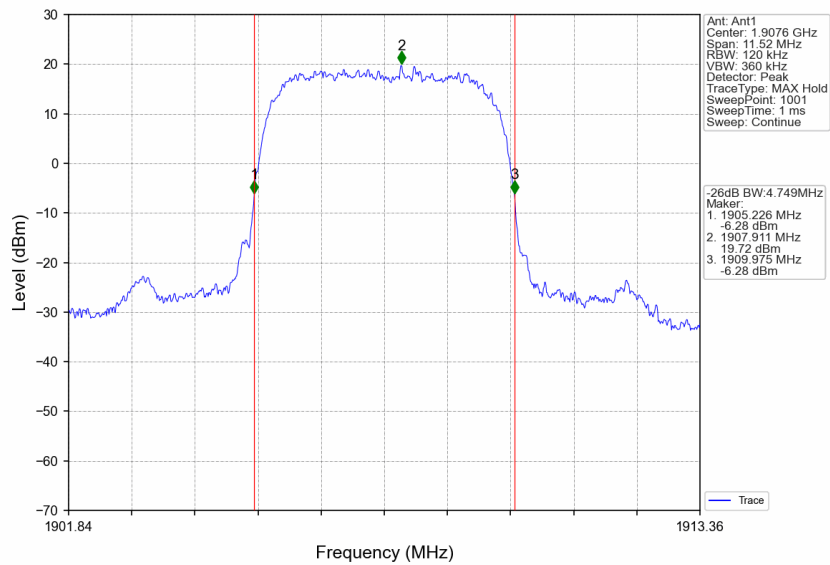
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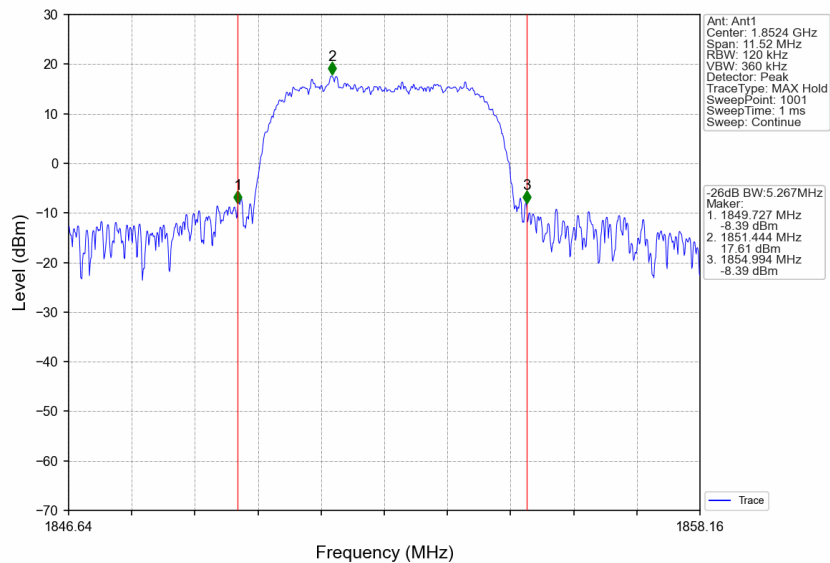
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Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



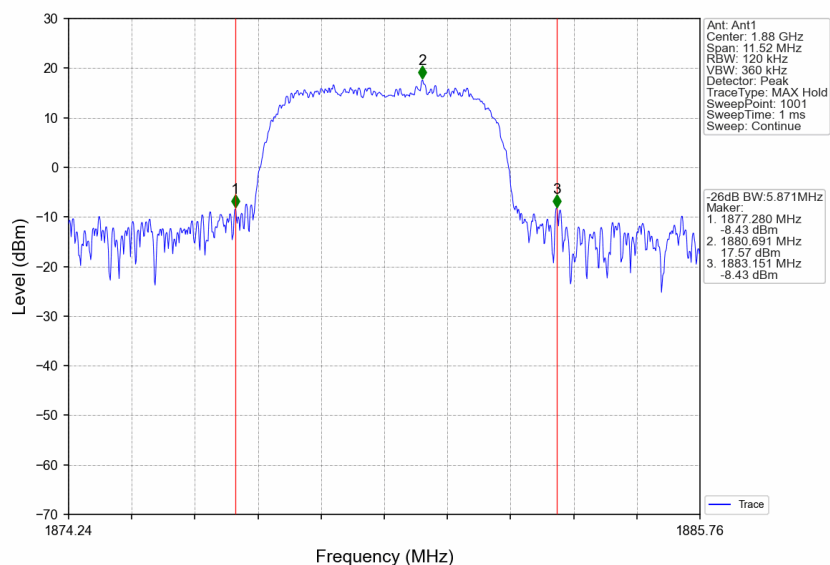
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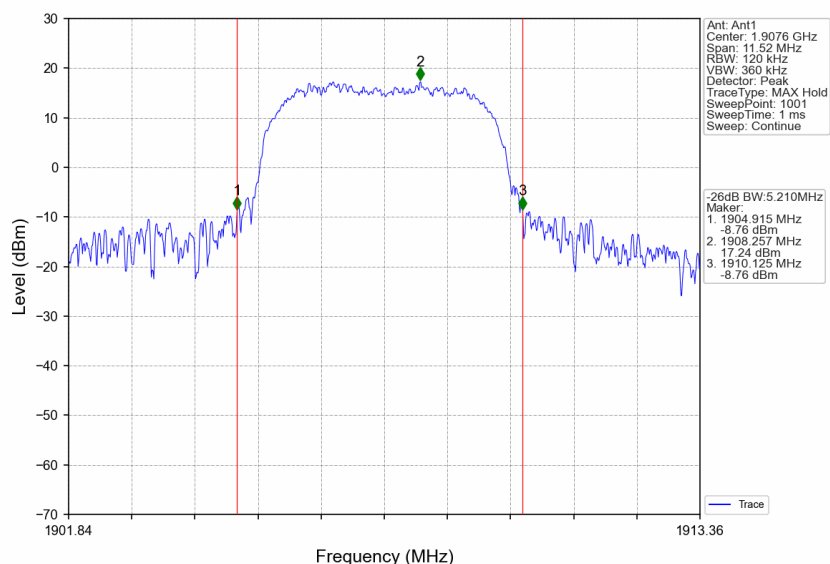
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Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



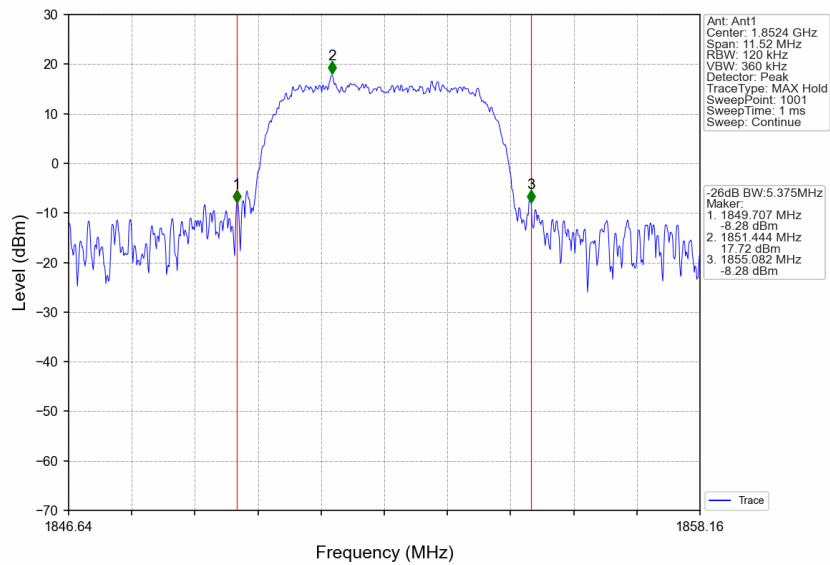
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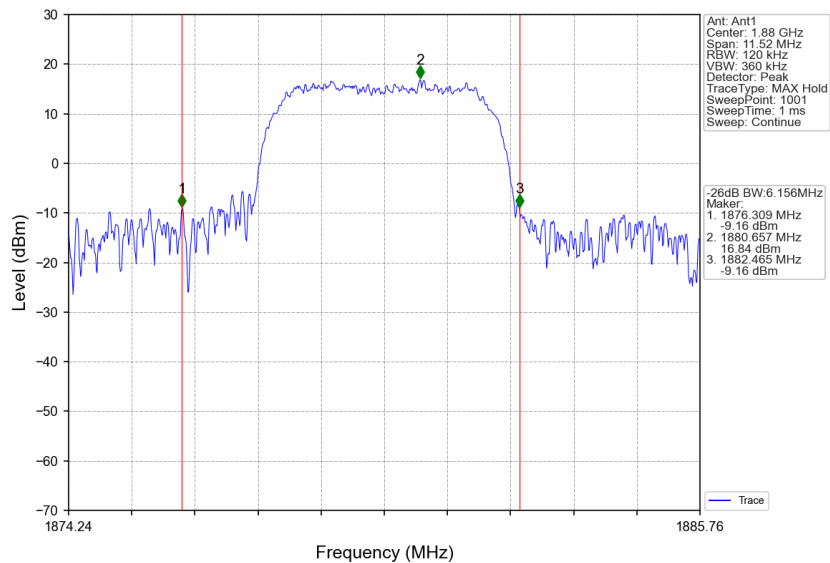
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Band2\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV



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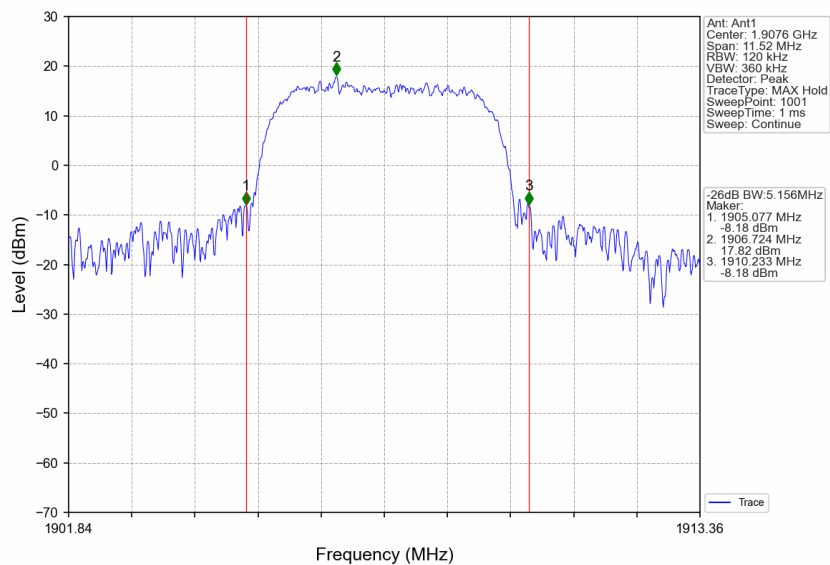
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## 5. Peak-Average Ratio

### 5.1 Band2

#### 5.1.1 Test Result

| Band: 2 |         |              |                 |                         |       |         |
|---------|---------|--------------|-----------------|-------------------------|-------|---------|
| ENV     | Mode    |              | Frequency (MHz) | Peak-Average Ratio (dB) |       | Verdict |
|         | Network | Subset       |                 | Result                  | Limit |         |
| NTNV    | RMC     | 12.2kbps RMC | 1852.4          | 2.79                    | <=13  | Pass    |
|         |         |              | 1880            | 2.97                    | <=13  | Pass    |
|         |         |              | 1907.6          | 2.90                    | <=13  | Pass    |
|         | HSDPA   | Subtest 1    | 1852.4          | 5.87                    | <=13  | Pass    |
|         |         |              | 1880            | 5.91                    | <=13  | Pass    |
|         |         |              | 1907.6          | 5.94                    | <=13  | Pass    |
|         | HSUPA   | Subtest 1    | 1852.4          | 5.91                    | <=13  | Pass    |
|         |         |              | 1880            | 5.99                    | <=13  | Pass    |
|         |         |              | 1907.6          | 6.05                    | <=13  | Pass    |

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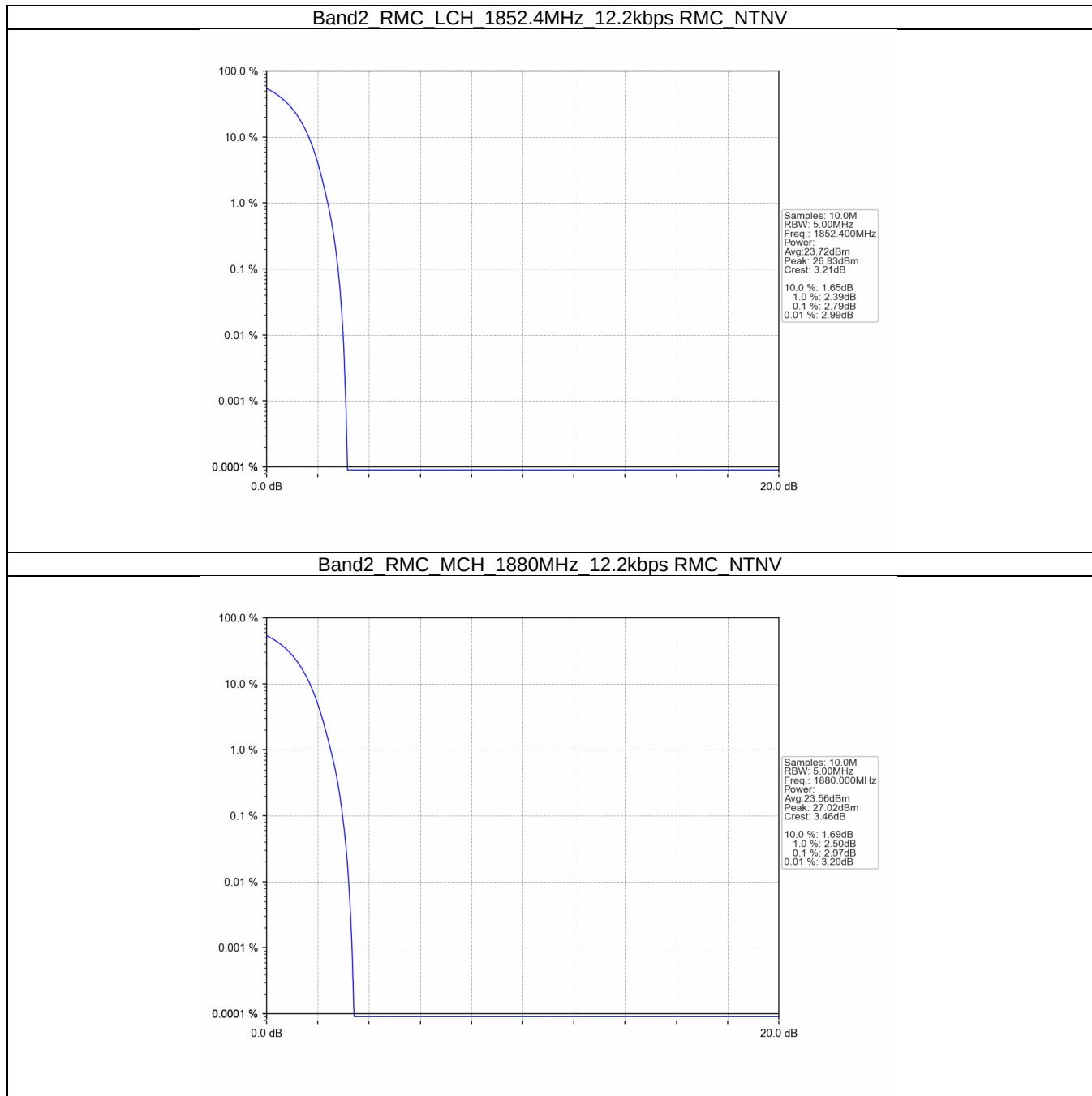
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### 5.1.2 Test Graph



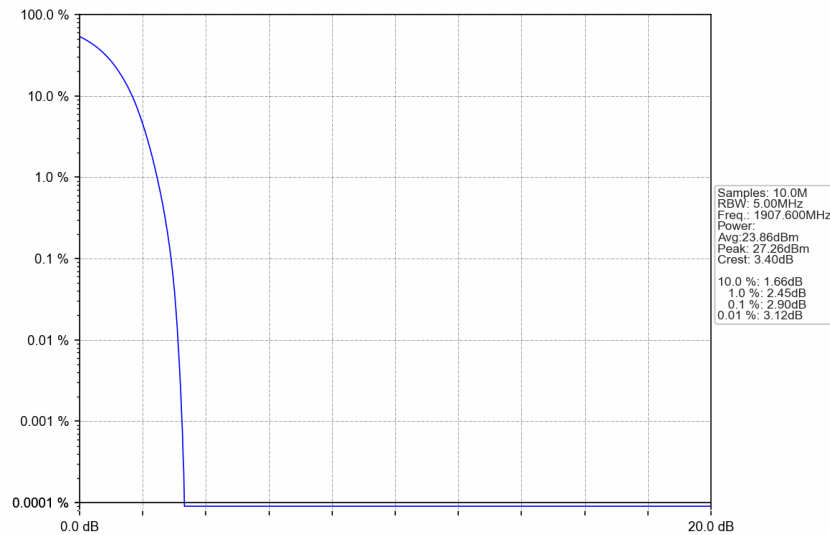
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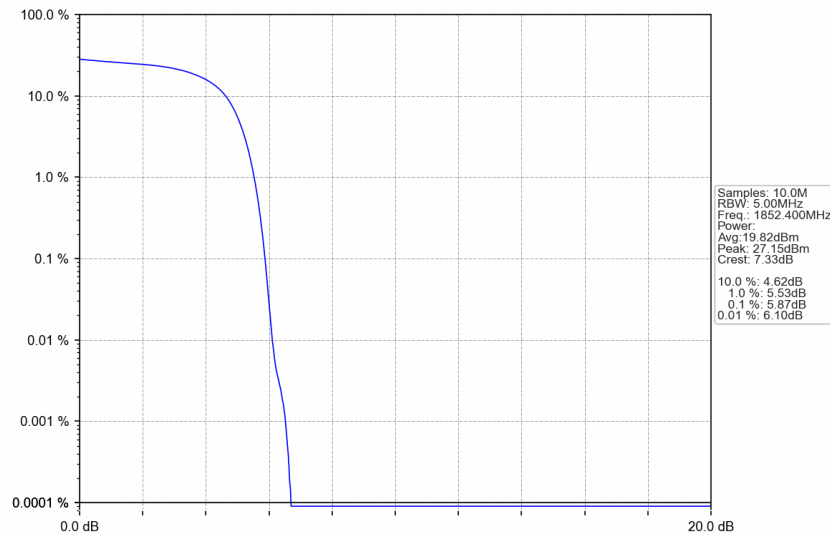
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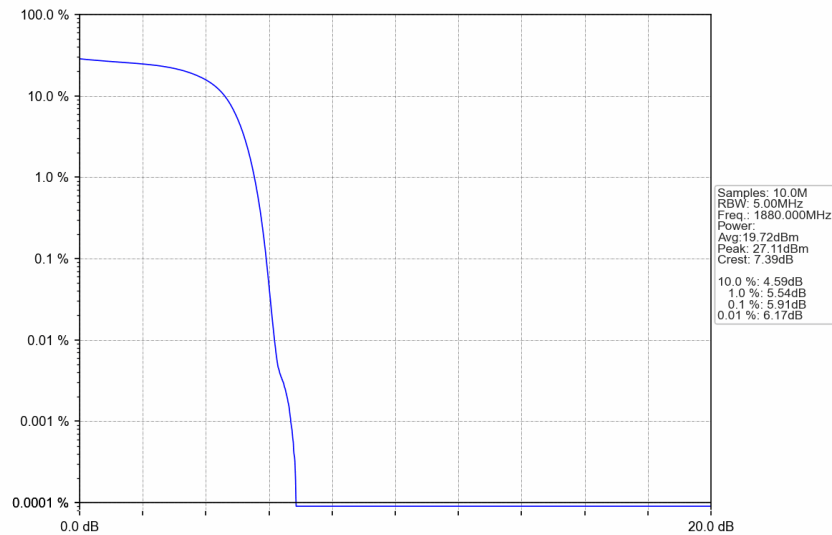
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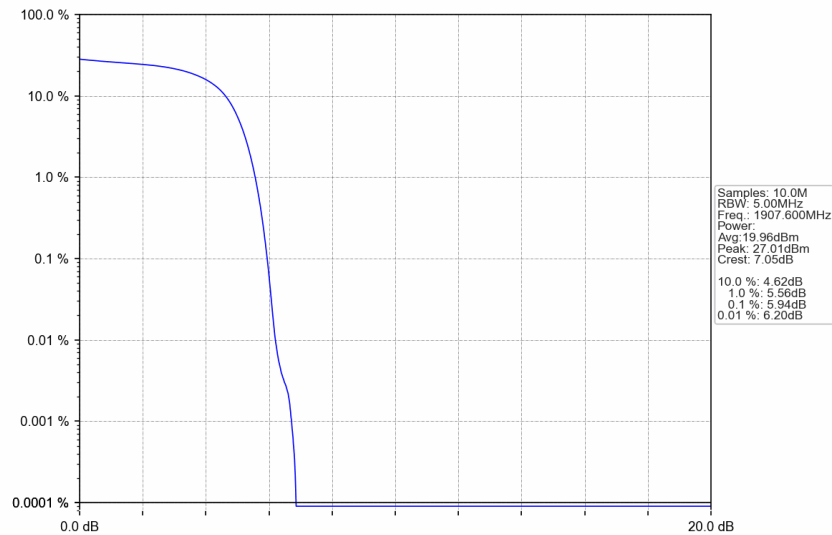
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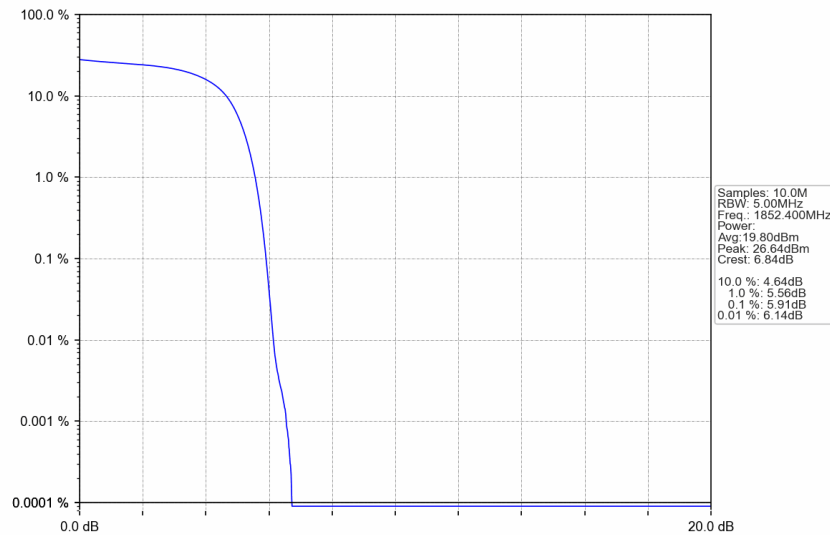
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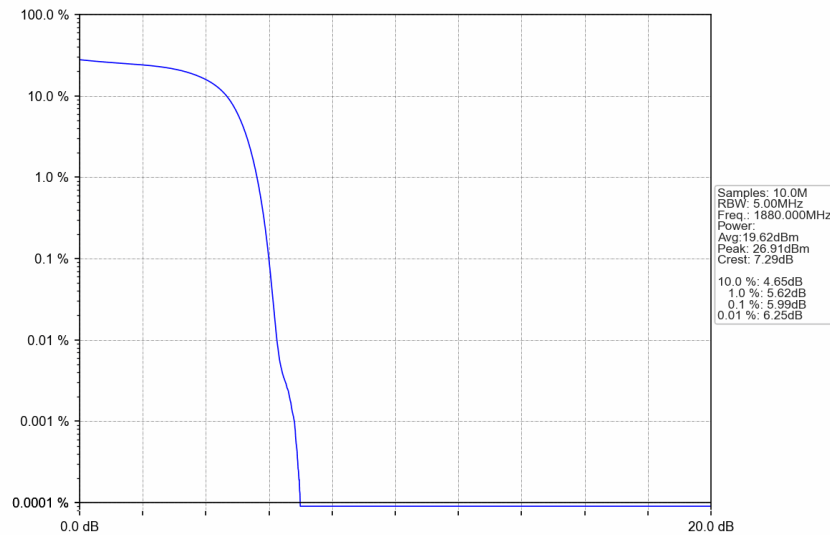
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Band2\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV



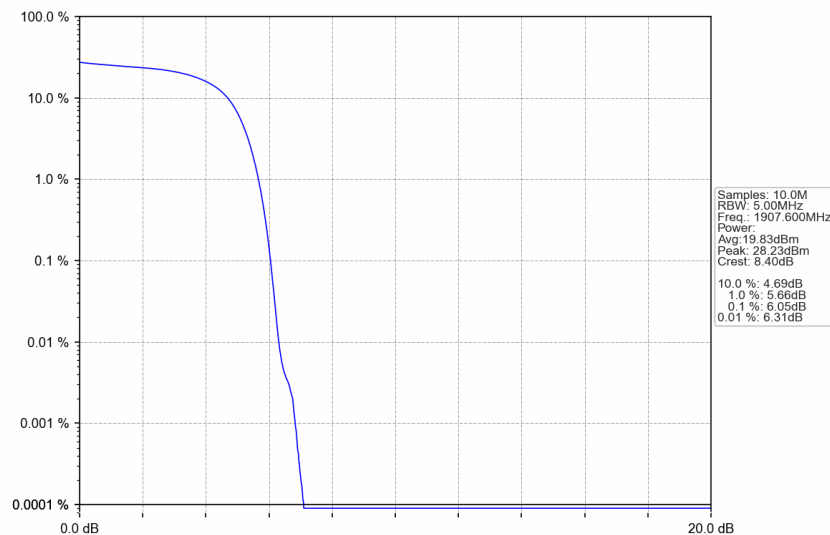
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## 6. Spurious Emission

### 6.1 Band2

#### 6.1.1 Test Result

| Band: 2 |         |              |                    |                     |       |         |
|---------|---------|--------------|--------------------|---------------------|-------|---------|
| ENV     | Mode    |              | Frequency<br>(MHz) | Spurious Emission   |       | Verdict |
|         | Network | Subset       |                    | Result              | Limit |         |
| NTNV    | RMC     | 12.2kbps RMC | 1852.4             | Refer To Test Graph |       | Pass    |
|         |         |              | 1880               | Refer To Test Graph |       | Pass    |
|         |         |              | 1907.6             | Refer To Test Graph |       | Pass    |
|         | HSDPA   | Subtest 1    | 1852.4             | Refer To Test Graph |       | Pass    |
|         |         |              | 1880               | Refer To Test Graph |       | Pass    |
|         |         |              | 1907.6             | Refer To Test Graph |       | Pass    |
|         | HSUPA   | Subtest 1    | 1852.4             | Refer To Test Graph |       | Pass    |
|         |         |              | 1880               | Refer To Test Graph |       | Pass    |
|         |         |              | 1907.6             | Refer To Test Graph |       | Pass    |



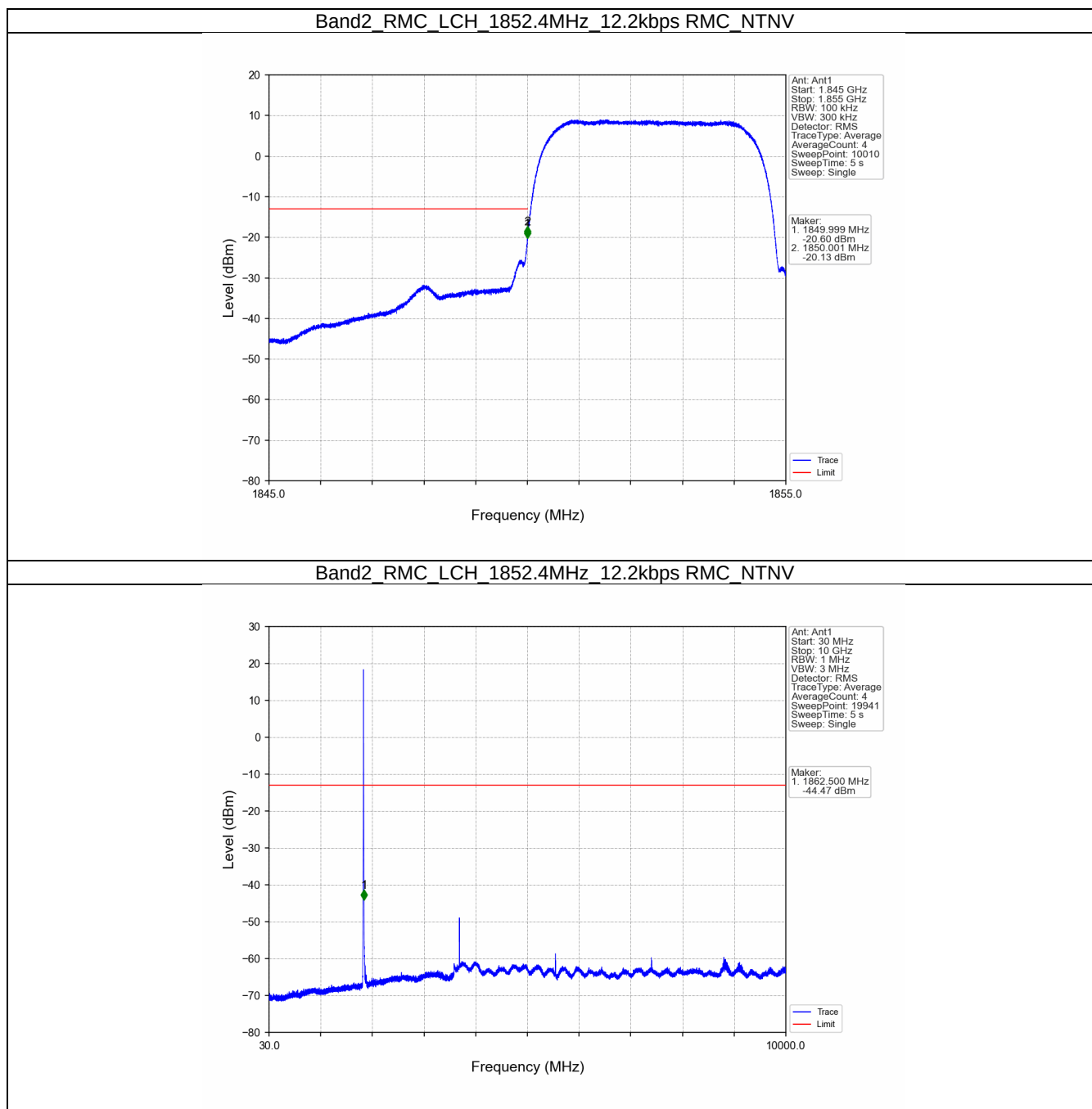
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### 6.1.2 Test Graph



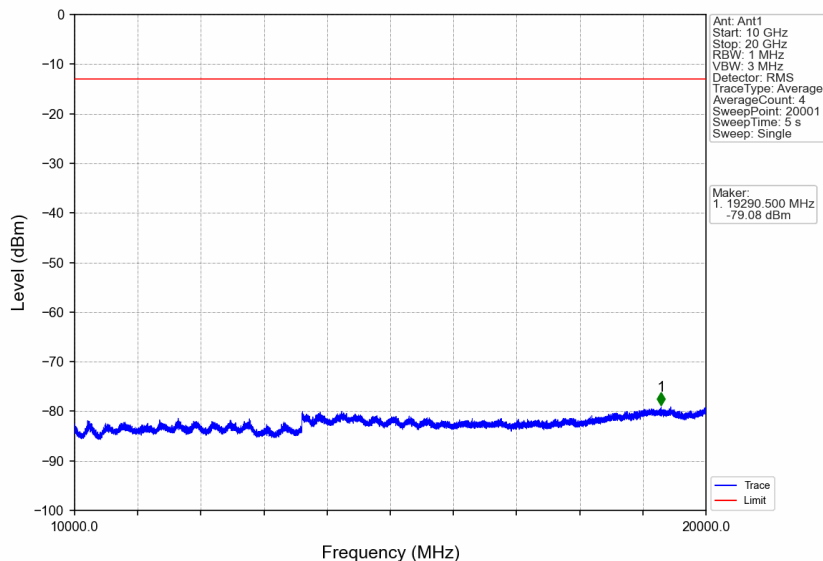
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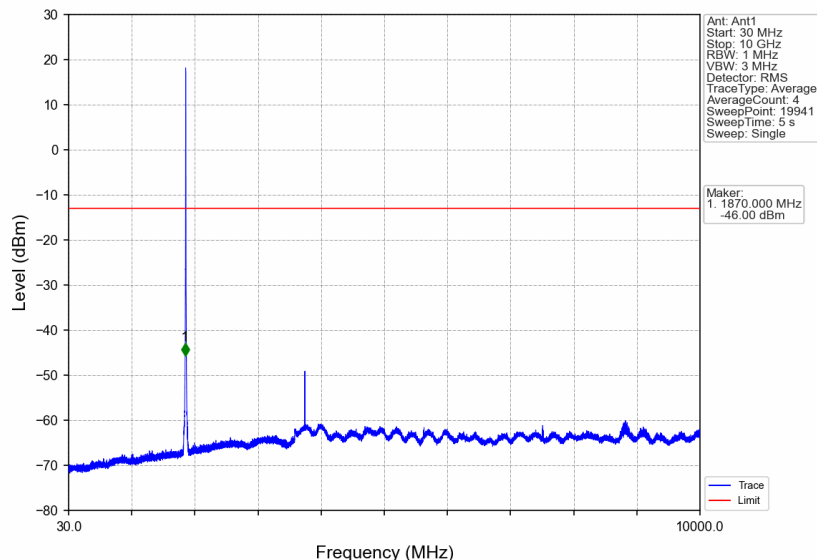
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Band2\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



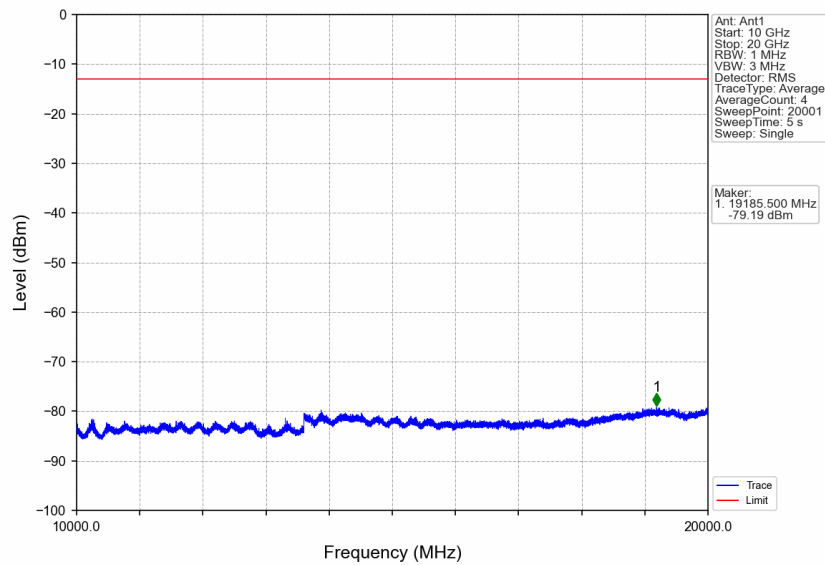
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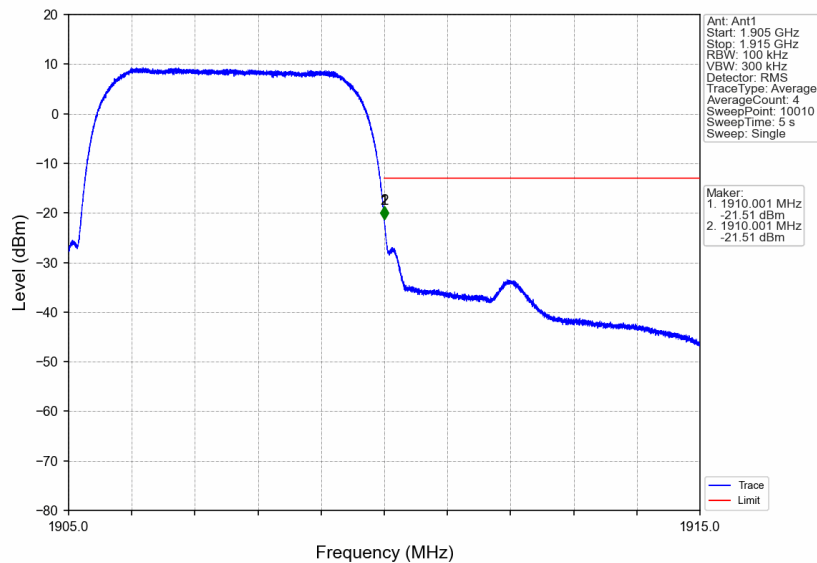
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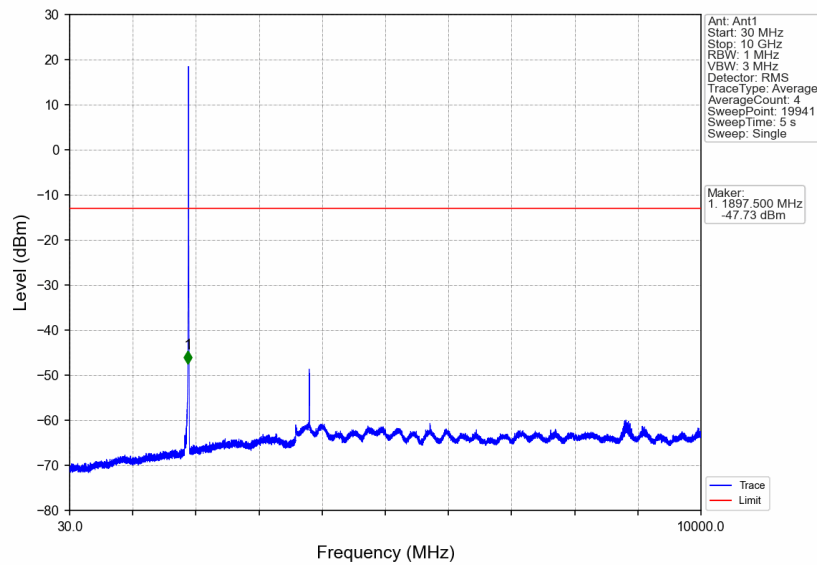
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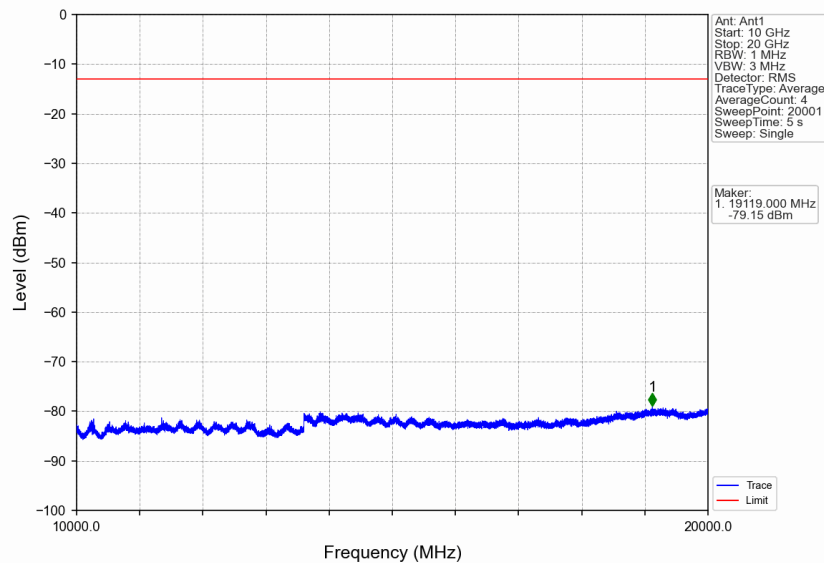
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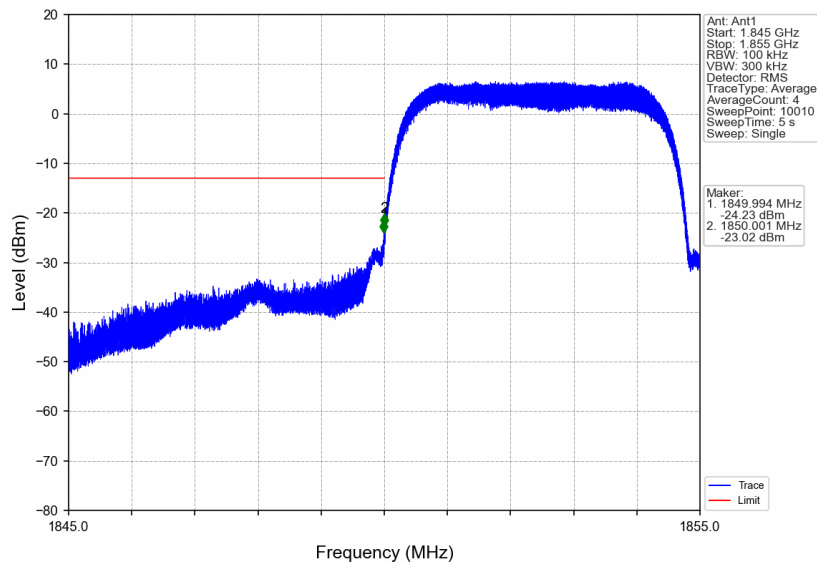
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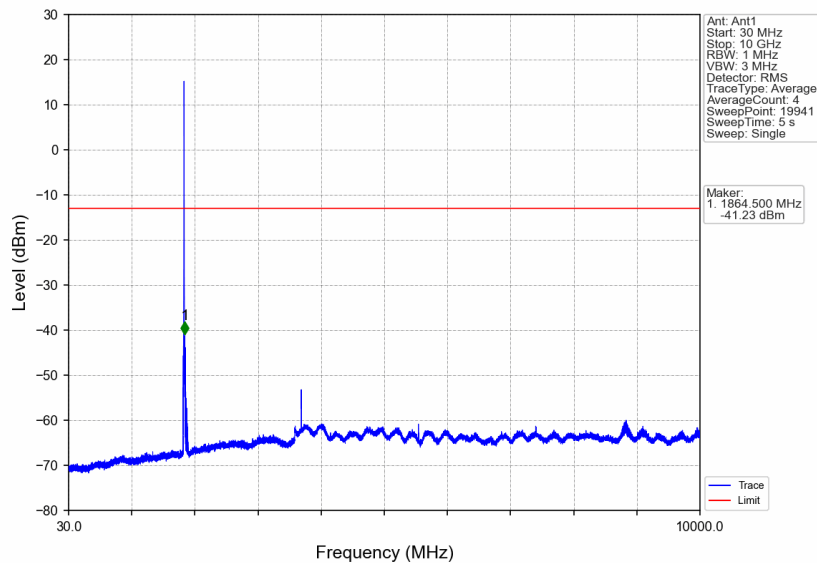
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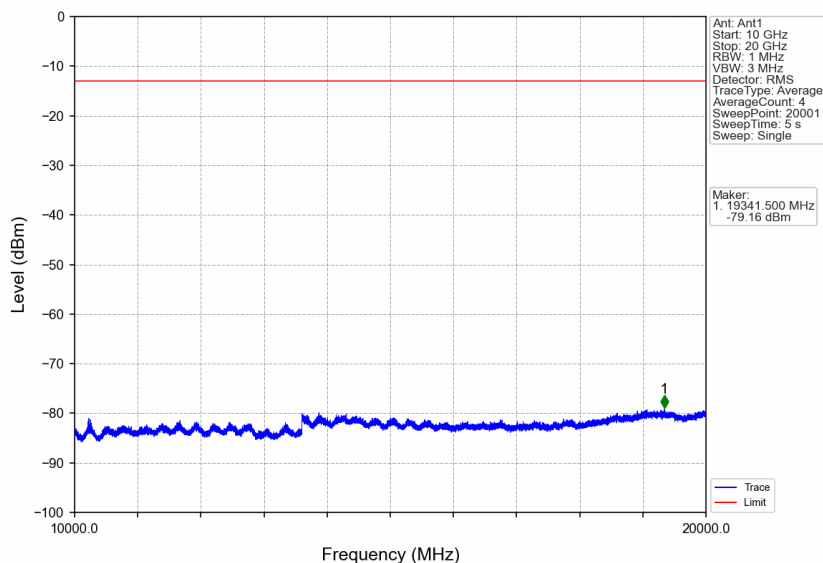
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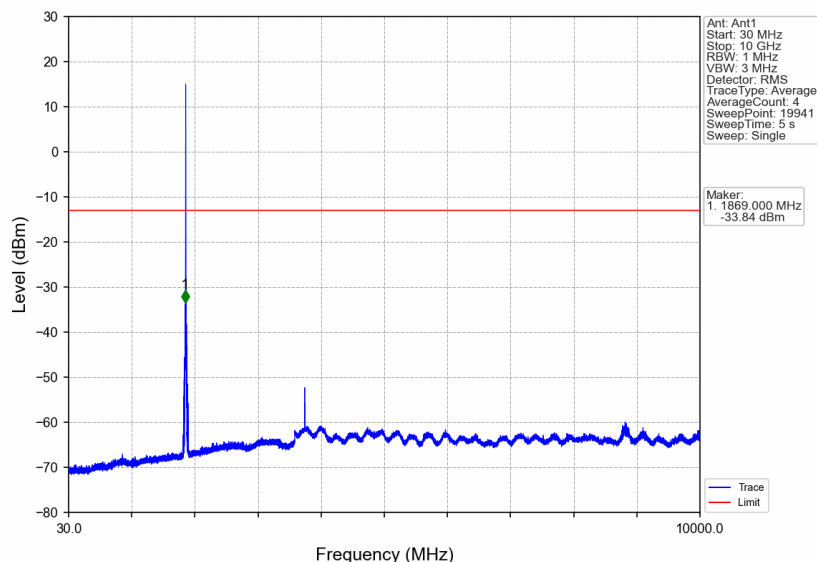
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Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



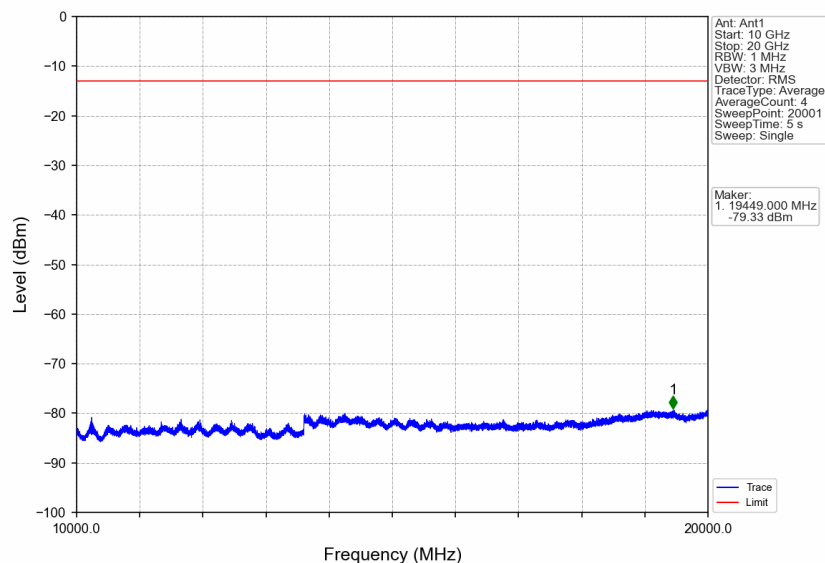
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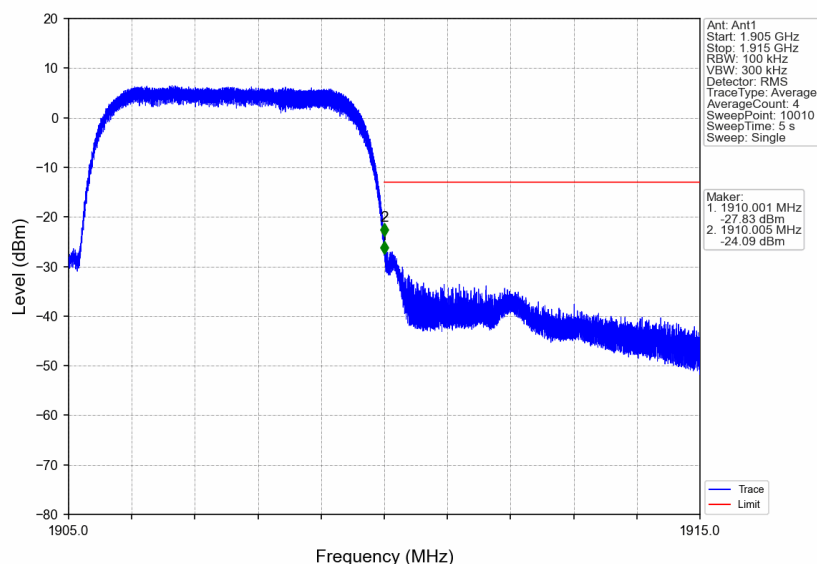
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Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



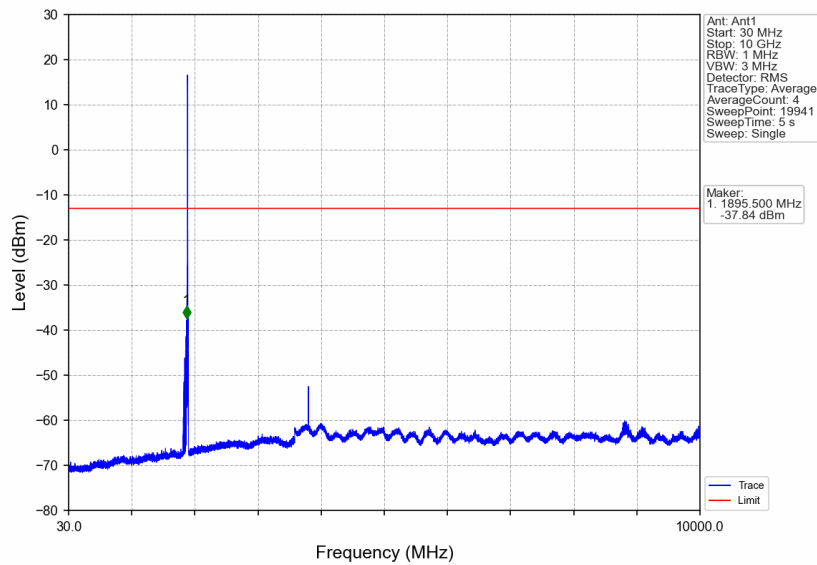
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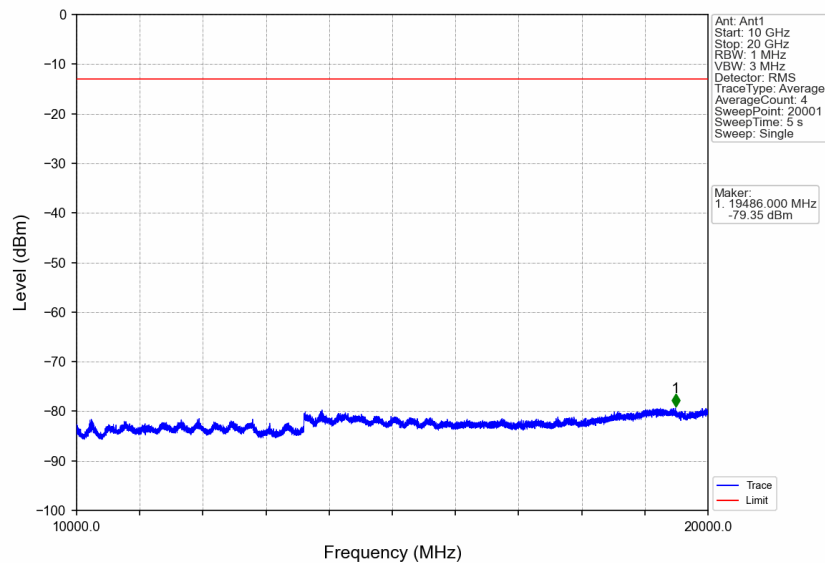
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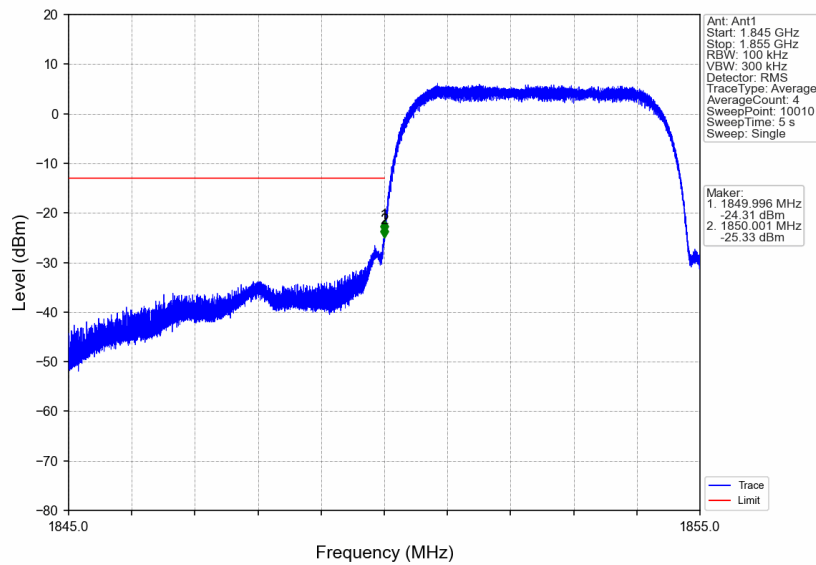
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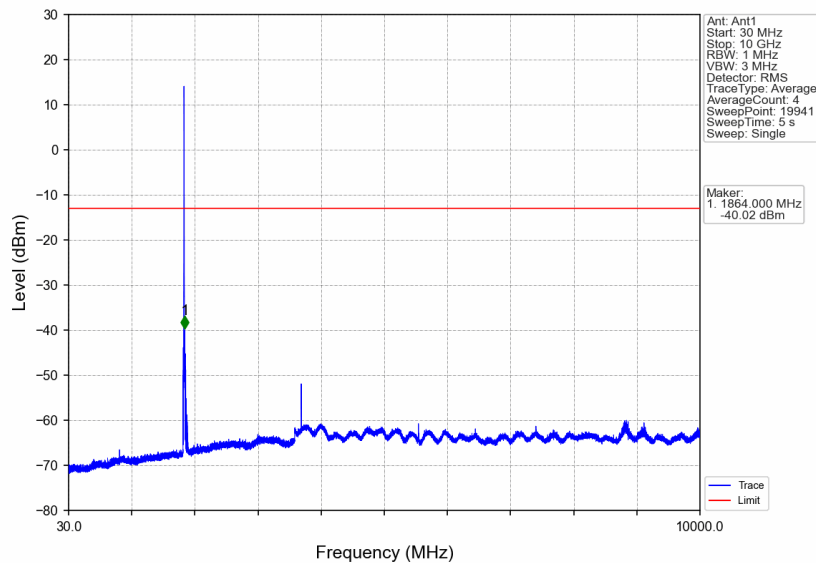
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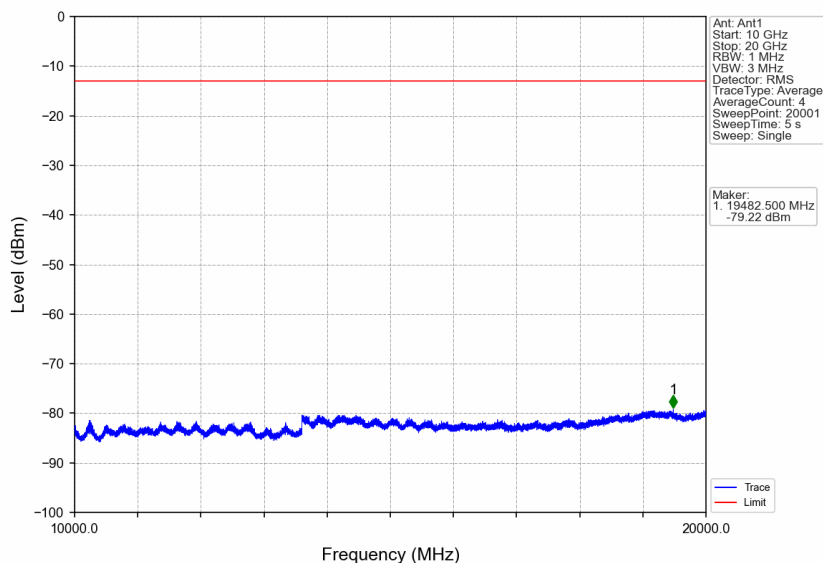
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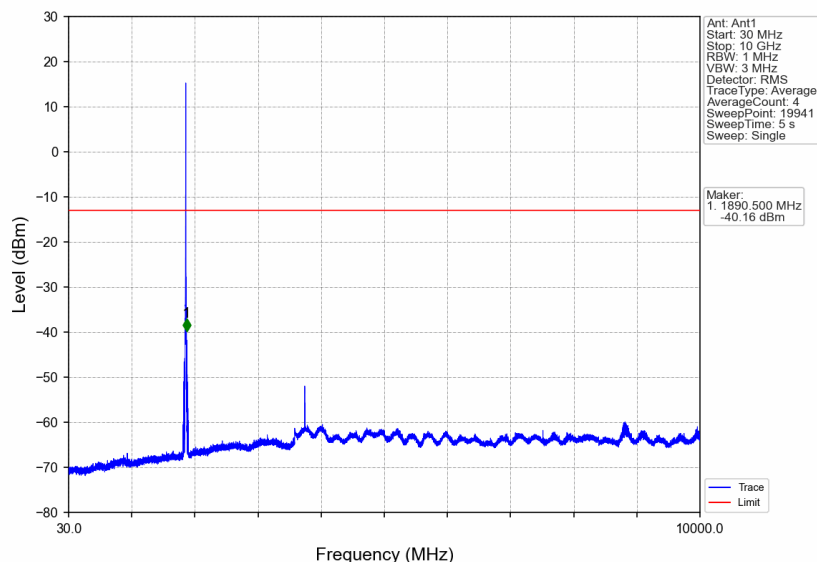
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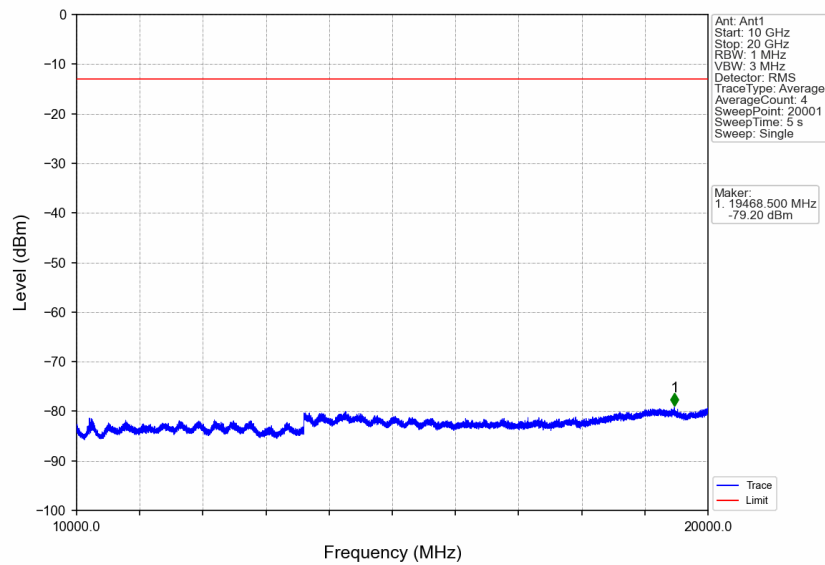
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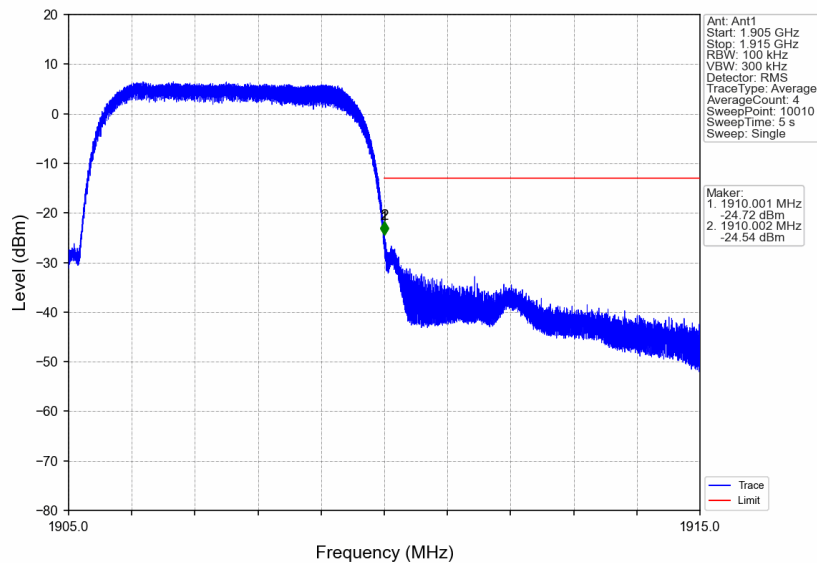
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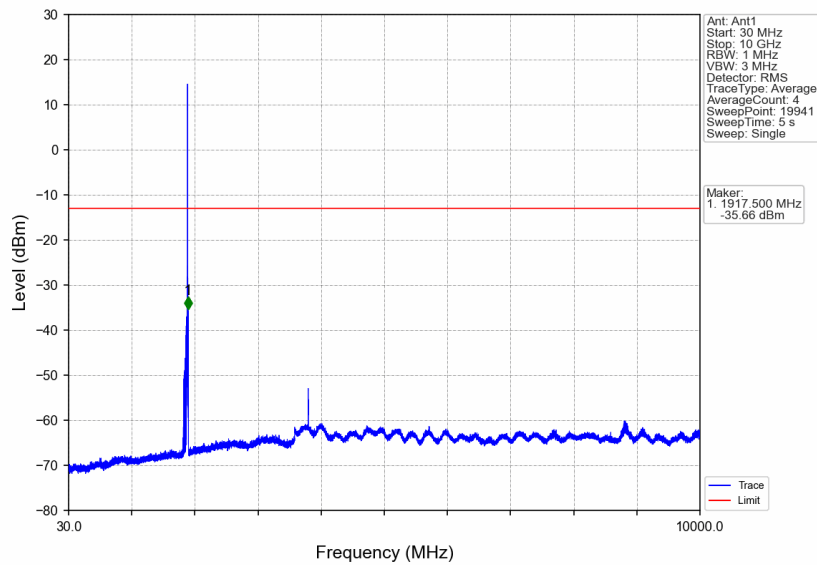
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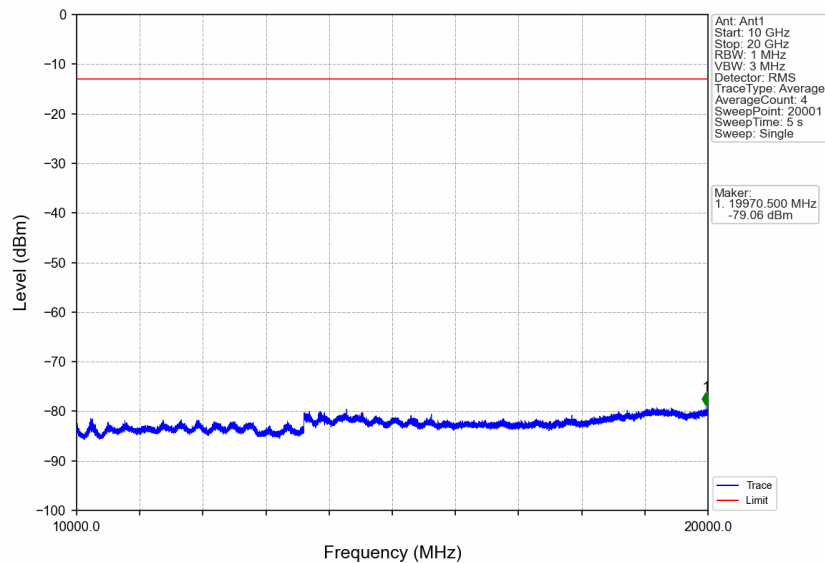
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