

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 PCS1900\_EIRP

| Band: PCS1900 |         |            |                 |                       |            |            |         |         |
|---------------|---------|------------|-----------------|-----------------------|------------|------------|---------|---------|
| ENV           | Mode    |            | Frequency (MHz) | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |         | Verdict |
|               | Network | Subset     |                 |                       |            | Result     | Limit   |         |
| NTNV          | GSM     | GSM        | 1850.2          | 30.03                 | -3.00      | 27.03      | <=33.01 | Pass    |
|               |         |            | 1880            | 30.25                 | -3.00      | 27.25      | <=33.01 | Pass    |
|               |         |            | 1909.8          | 30.32                 | -3.00      | 27.32      | <=33.01 | Pass    |
|               | GPRS    | 1 TX Slot  | 1850.2          | 30.19                 | -3.00      | 27.19      | <=33.01 | Pass    |
|               |         | 2 TX Slots | 1850.2          | 27.42                 | -3.00      | 24.42      | <=33.01 | Pass    |
|               |         | 3 TX Slots | 1850.2          | 29.89                 | -3.00      | 26.89      | <=33.01 | Pass    |
|               |         | 4 TX Slots | 1850.2          | 24.33                 | -3.00      | 21.33      | <=33.01 | Pass    |
|               |         | 1 TX Slot  | 1880            | 29.80                 | -3.00      | 26.80      | <=33.01 | Pass    |
|               |         | 2 TX Slots | 1880            | 27.12                 | -3.00      | 24.12      | <=33.01 | Pass    |
|               |         | 3 TX Slots | 1880            | 25.60                 | -3.00      | 22.60      | <=33.01 | Pass    |
|               |         | 4 TX Slots | 1880            | 24.27                 | -3.00      | 21.27      | <=33.01 | Pass    |
|               |         | 1 TX Slot  | 1909.8          | 30.11                 | -3.00      | 27.11      | <=33.01 | Pass    |
|               |         | 2 TX Slots | 1909.8          | 27.21                 | -3.00      | 24.21      | <=33.01 | Pass    |
|               |         | 3 TX Slots | 1909.8          | 25.71                 | -3.00      | 22.71      | <=33.01 | Pass    |
|               |         | 4 TX Slots | 1909.8          | 24.41                 | -3.00      | 21.41      | <=33.01 | Pass    |
|               | EGPRS   | 1 TX Slot  | 1850.2          | 26.35                 | -3.00      | 23.35      | <=33.01 | Pass    |
|               |         | 2 TX Slots | 1850.2          | 23.63                 | -3.00      | 20.63      | <=33.01 | Pass    |
|               |         | 3 TX Slots | 1850.2          | 23.61                 | -3.00      | 20.61      | <=33.01 | Pass    |
|               |         | 4 TX Slots | 1850.2          | 21.49                 | -3.00      | 18.49      | <=33.01 | Pass    |
|               |         | 1 TX Slot  | 1880            | 26.18                 | -3.00      | 23.18      | <=33.01 | Pass    |
|               |         | 2 TX Slots | 1880            | 23.47                 | -3.00      | 20.47      | <=33.01 | Pass    |
|               |         | 3 TX Slots | 1880            | 22.27                 | -3.00      | 19.27      | <=33.01 | Pass    |
|               |         | 4 TX Slots | 1880            | 21.64                 | -3.00      | 18.64      | <=33.01 | Pass    |
|               |         | 1 TX Slot  | 1909.8          | 26.18                 | -3.00      | 23.18      | <=33.01 | Pass    |
|               |         | 2 TX Slots | 1909.8          | 23.71                 | -3.00      | 20.71      | <=33.01 | Pass    |
|               |         | 3 TX Slots | 1909.8          | 21.94                 | -3.00      | 18.94      | <=33.01 | Pass    |
|               |         | 4 TX Slots | 1909.8          | 21.75                 | -3.00      | 18.75      | <=33.01 | Pass    |

Note1: EIRP=Conducted Power+Antenna Gain

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 PCS1900

| Band: PCS1900 |                 |            |               |                  |                       |             |         |
|---------------|-----------------|------------|---------------|------------------|-----------------------|-------------|---------|
| Network       | Frequency (MHz) | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|               |                 |            |               |                  | Result                | Limit       |         |
| GSM           | 1850.2          | 20         | 3.27          | 3.325            | 0.0018                | -2.5 to 2.5 | Pass    |
|               |                 |            | 3.85          | 0.613            | 0.0003                | -2.5 to 2.5 | Pass    |
|               |                 |            | 4.43          | 5.101            | 0.0028                | -2.5 to 2.5 | Pass    |
|               |                 | -30        | 3.85          | 4.165            | 0.0023                | -2.5 to 2.5 | Pass    |
|               |                 | -20        | 3.85          | 1.517            | 0.0008                | -2.5 to 2.5 | Pass    |
|               |                 | -10        | 3.85          | 12.333           | 0.0067                | -2.5 to 2.5 | Pass    |
|               |                 | 0          | 3.85          | 3.713            | 0.0020                | -2.5 to 2.5 | Pass    |
|               |                 | 10         | 3.85          | 1.130            | 0.0006                | -2.5 to 2.5 | Pass    |
|               |                 | 30         | 3.85          | 1.550            | 0.0008                | -2.5 to 2.5 | Pass    |
|               |                 | 40         | 3.85          | 0.646            | 0.0003                | -2.5 to 2.5 | Pass    |
|               |                 | 50         | 3.85          | 4.036            | 0.0022                | -2.5 to 2.5 | Pass    |
|               | 1880            | 20         | 3.27          | 6.619            | 0.0035                | -2.5 to 2.5 | Pass    |
|               |                 |            | 3.85          | 6.780            | 0.0036                | -2.5 to 2.5 | Pass    |
|               |                 |            | 4.43          | 1.776            | 0.0009                | -2.5 to 2.5 | Pass    |
|               |                 | -30        | 3.85          | 2.647            | 0.0014                | -2.5 to 2.5 | Pass    |
|               |                 | -20        | 3.85          | 5.392            | 0.0029                | -2.5 to 2.5 | Pass    |
|               |                 | -10        | 3.85          | 1.969            | 0.0010                | -2.5 to 2.5 | Pass    |
|               |                 | 0          | 3.85          | 3.003            | 0.0016                | -2.5 to 2.5 | Pass    |
|               |                 | 10         | 3.85          | 3.487            | 0.0019                | -2.5 to 2.5 | Pass    |
|               |                 | 30         | 3.85          | 2.744            | 0.0015                | -2.5 to 2.5 | Pass    |
|               |                 | 40         | 3.85          | -1.227           | -0.0007               | -2.5 to 2.5 | Pass    |
|               |                 | 50         | 3.85          | 6.102            | 0.0032                | -2.5 to 2.5 | Pass    |
|               | 1909.8          | 20         | 3.27          | 5.747            | 0.0030                | -2.5 to 2.5 | Pass    |
|               |                 |            | 3.85          | 3.325            | 0.0017                | -2.5 to 2.5 | Pass    |
|               |                 |            | 4.43          | 5.037            | 0.0026                | -2.5 to 2.5 | Pass    |
|               |                 | -30        | 3.85          | 4.585            | 0.0024                | -2.5 to 2.5 | Pass    |
|               |                 | -20        | 3.85          | 3.132            | 0.0016                | -2.5 to 2.5 | Pass    |
|               |                 | -10        | 3.85          | 6.167            | 0.0032                | -2.5 to 2.5 | Pass    |
|               |                 | 0          | 3.85          | 2.389            | 0.0013                | -2.5 to 2.5 | Pass    |
|               |                 | 10         | 3.85          | 4.165            | 0.0022                | -2.5 to 2.5 | Pass    |
|               |                 | 30         | 3.85          | 4.165            | 0.0022                | -2.5 to 2.5 | Pass    |
|               |                 | 40         | 3.85          | 0.000            | 0.0000                | -2.5 to 2.5 | Pass    |
|               |                 | 50         | 3.85          | 3.777            | 0.0020                | -2.5 to 2.5 | Pass    |
| GPRS          | 1850.2          | 20         | 3.27          | 12.495           | 0.0068                | -2.5 to 2.5 | Pass    |
|               |                 |            | 3.85          | 11.429           | 0.0062                | -2.5 to 2.5 | Pass    |
|               |                 |            | 4.43          | 14.658           | 0.0079                | -2.5 to 2.5 | Pass    |
|               |                 | -30        | 3.85          | 11.591           | 0.0063                | -2.5 to 2.5 | Pass    |
|               |                 | -20        | 3.85          | 15.207           | 0.0082                | -2.5 to 2.5 | Pass    |
|               |                 | -10        | 3.85          | 12.656           | 0.0068                | -2.5 to 2.5 | Pass    |
|               |                 | 0          | 3.85          | 12.753           | 0.0069                | -2.5 to 2.5 | Pass    |
|               |                 | 10         | 3.85          | 16.046           | 0.0087                | -2.5 to 2.5 | Pass    |
|               |                 | 30         | 3.85          | 12.236           | 0.0066                | -2.5 to 2.5 | Pass    |
|               |                 | 40         | 3.85          | 13.269           | 0.0072                | -2.5 to 2.5 | Pass    |
|               |                 | 50         | 3.85          | 15.820           | 0.0086                | -2.5 to 2.5 | Pass    |
|               | 1880            | 20         | 3.27          | 12.979           | 0.0069                | -2.5 to 2.5 | Pass    |
|               |                 |            | 3.85          | 12.301           | 0.0065                | -2.5 to 2.5 | Pass    |
|               |                 |            | 4.43          | 15.174           | 0.0081                | -2.5 to 2.5 | Pass    |

|       |        |     |      |        |        |             |      |
|-------|--------|-----|------|--------|--------|-------------|------|
|       |        | -30 | 3.85 | 14.238 | 0.0076 | -2.5 to 2.5 | Pass |
|       |        | -20 | 3.85 | 16.143 | 0.0086 | -2.5 to 2.5 | Pass |
|       |        | -10 | 3.85 | 15.820 | 0.0084 | -2.5 to 2.5 | Pass |
|       |        | 0   | 3.85 | 13.721 | 0.0073 | -2.5 to 2.5 | Pass |
|       |        | 10  | 3.85 | 13.980 | 0.0074 | -2.5 to 2.5 | Pass |
|       |        | 30  | 3.85 | 13.851 | 0.0074 | -2.5 to 2.5 | Pass |
|       |        | 40  | 3.85 | 14.819 | 0.0079 | -2.5 to 2.5 | Pass |
|       |        | 50  | 3.85 | 17.208 | 0.0092 | -2.5 to 2.5 | Pass |
|       | 1909.8 | 20  | 3.27 | 13.011 | 0.0068 | -2.5 to 2.5 | Pass |
|       |        |     | 3.85 | 12.850 | 0.0067 | -2.5 to 2.5 | Pass |
|       |        |     | 4.43 | 11.268 | 0.0059 | -2.5 to 2.5 | Pass |
|       |        | -30 | 3.85 | 16.078 | 0.0084 | -2.5 to 2.5 | Pass |
|       |        | -20 | 3.85 | 14.238 | 0.0075 | -2.5 to 2.5 | Pass |
|       |        | -10 | 3.85 | 13.366 | 0.0070 | -2.5 to 2.5 | Pass |
|       |        | 0   | 3.85 | 14.593 | 0.0076 | -2.5 to 2.5 | Pass |
|       |        | 10  | 3.85 | 12.947 | 0.0068 | -2.5 to 2.5 | Pass |
|       |        | 30  | 3.85 | 11.494 | 0.0060 | -2.5 to 2.5 | Pass |
|       |        | 40  | 3.85 | 11.720 | 0.0061 | -2.5 to 2.5 | Pass |
|       |        | 50  | 3.85 | 11.526 | 0.0060 | -2.5 to 2.5 | Pass |
| EGPRS | 1850.2 | 20  | 3.27 | 19.920 | 0.0108 | -2.5 to 2.5 | Pass |
|       |        |     | 3.85 | 21.728 | 0.0117 | -2.5 to 2.5 | Pass |
|       |        |     | 4.43 | 19.404 | 0.0105 | -2.5 to 2.5 | Pass |
|       |        | -30 | 3.85 | 16.756 | 0.0091 | -2.5 to 2.5 | Pass |
|       |        | -20 | 3.85 | 19.049 | 0.0103 | -2.5 to 2.5 | Pass |
|       |        | -10 | 3.85 | 20.566 | 0.0111 | -2.5 to 2.5 | Pass |
|       |        | 0   | 3.85 | 15.949 | 0.0086 | -2.5 to 2.5 | Pass |
|       |        | 10  | 3.85 | 18.242 | 0.0099 | -2.5 to 2.5 | Pass |
|       |        | 30  | 3.85 | 18.080 | 0.0098 | -2.5 to 2.5 | Pass |
|       |        | 40  | 3.85 | 18.758 | 0.0101 | -2.5 to 2.5 | Pass |
|       |        | 50  | 3.85 | 17.434 | 0.0094 | -2.5 to 2.5 | Pass |
|       | 1880   | 20  | 3.27 | 20.017 | 0.0106 | -2.5 to 2.5 | Pass |
|       |        |     | 3.85 | 15.110 | 0.0080 | -2.5 to 2.5 | Pass |
|       |        |     | 4.43 | 12.495 | 0.0066 | -2.5 to 2.5 | Pass |
|       |        | -30 | 3.85 | 16.627 | 0.0088 | -2.5 to 2.5 | Pass |
|       |        | -20 | 3.85 | 16.789 | 0.0089 | -2.5 to 2.5 | Pass |
|       |        | -10 | 3.85 | 12.785 | 0.0068 | -2.5 to 2.5 | Pass |
|       |        | 0   | 3.85 | 10.331 | 0.0055 | -2.5 to 2.5 | Pass |
|       |        | 10  | 3.85 | 20.598 | 0.0110 | -2.5 to 2.5 | Pass |
|       |        | 30  | 3.85 | 19.920 | 0.0106 | -2.5 to 2.5 | Pass |
|       |        | 40  | 3.85 | 20.308 | 0.0108 | -2.5 to 2.5 | Pass |
|       |        | 50  | 3.85 | 19.372 | 0.0103 | -2.5 to 2.5 | Pass |
|       | 1909.8 | 20  | 3.27 | 14.884 | 0.0078 | -2.5 to 2.5 | Pass |
|       |        |     | 3.85 | 13.011 | 0.0068 | -2.5 to 2.5 | Pass |
|       |        |     | 4.43 | 14.303 | 0.0075 | -2.5 to 2.5 | Pass |
|       |        | -30 | 3.85 | 17.822 | 0.0093 | -2.5 to 2.5 | Pass |
|       |        | -20 | 3.85 | 18.209 | 0.0095 | -2.5 to 2.5 | Pass |
|       |        | -10 | 3.85 | 19.533 | 0.0102 | -2.5 to 2.5 | Pass |
|       |        | 0   | 3.85 | 18.371 | 0.0096 | -2.5 to 2.5 | Pass |
|       |        | 10  | 3.85 | 17.434 | 0.0091 | -2.5 to 2.5 | Pass |
|       |        | 30  | 3.85 | 17.596 | 0.0092 | -2.5 to 2.5 | Pass |
|       |        | 40  | 3.85 | 18.242 | 0.0096 | -2.5 to 2.5 | Pass |
|       |        | 50  | 3.85 | 19.501 | 0.0102 | -2.5 to 2.5 | Pass |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 PCS1900\_OBW

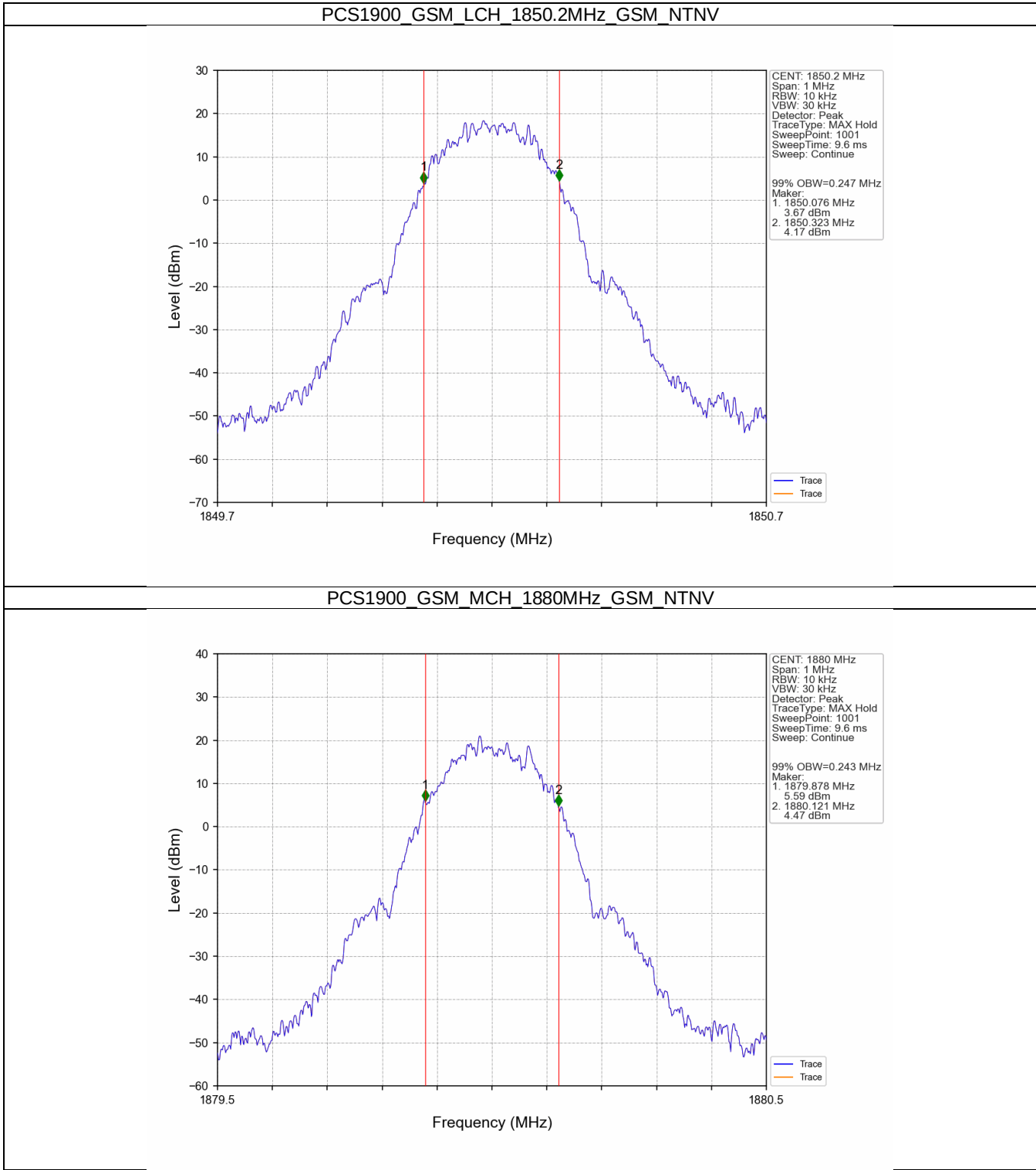
| Band: PCS1900 |         |           |                 |                              |       |         |
|---------------|---------|-----------|-----------------|------------------------------|-------|---------|
| ENV           | Mode    |           | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       | Verdict |
|               | Network | Subset    |                 | Result                       | Limit |         |
| NTNV          | GSM     | GSM       | 1850.2          | 0.247                        | /     | Pass    |
|               |         |           | 1880            | 0.243                        | /     | Pass    |
|               |         |           | 1909.8          | 0.242                        | /     | Pass    |
|               | GPRS    | 1 TX Slot | 1850.2          | 0.245                        | /     | Pass    |
|               |         |           | 1880            | 0.246                        | /     | Pass    |
|               |         |           | 1909.8          | 0.243                        | /     | Pass    |
|               | EGPRS   | 1 TX Slot | 1850.2          | 0.247                        | /     | Pass    |
|               |         |           | 1880            | 0.244                        | /     | Pass    |
|               |         |           | 1909.8          | 0.240                        | /     | Pass    |

##### 3.1.2 PCS1900\_XDB

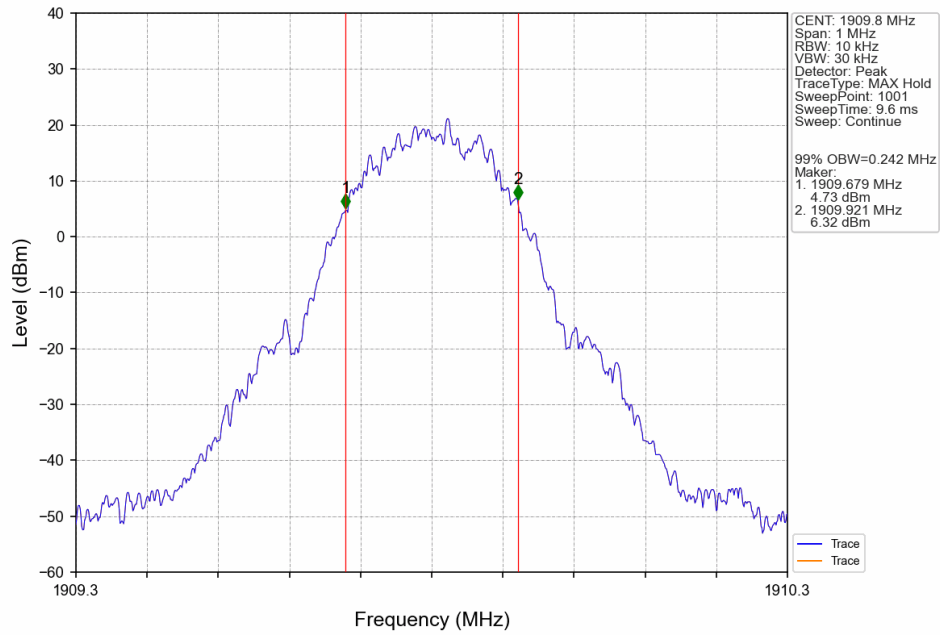
| Band: PCS1900 |         |           |                 |                      |       |         |
|---------------|---------|-----------|-----------------|----------------------|-------|---------|
| ENV           | Mode    |           | Frequency (MHz) | 26dB Bandwidth (MHz) |       | Verdict |
|               | Network | Subset    |                 | Result               | Limit |         |
| NTNV          | GSM     | GSM       | 1850.2          | 0.321                | /     | Pass    |
|               |         |           | 1880            | 0.309                | /     | Pass    |
|               |         |           | 1909.8          | 0.306                | /     | Pass    |
|               | GPRS    | 1 TX Slot | 1850.2          | 0.316                | /     | Pass    |
|               |         |           | 1880            | 0.318                | /     | Pass    |
|               |         |           | 1909.8          | 0.315                | /     | Pass    |
|               | EGPRS   | 1 TX Slot | 1850.2          | 0.325                | /     | Pass    |
|               |         |           | 1880            | 0.312                | /     | Pass    |
|               |         |           | 1909.8          | 0.315                | /     | Pass    |

# 3.2 Test Graph

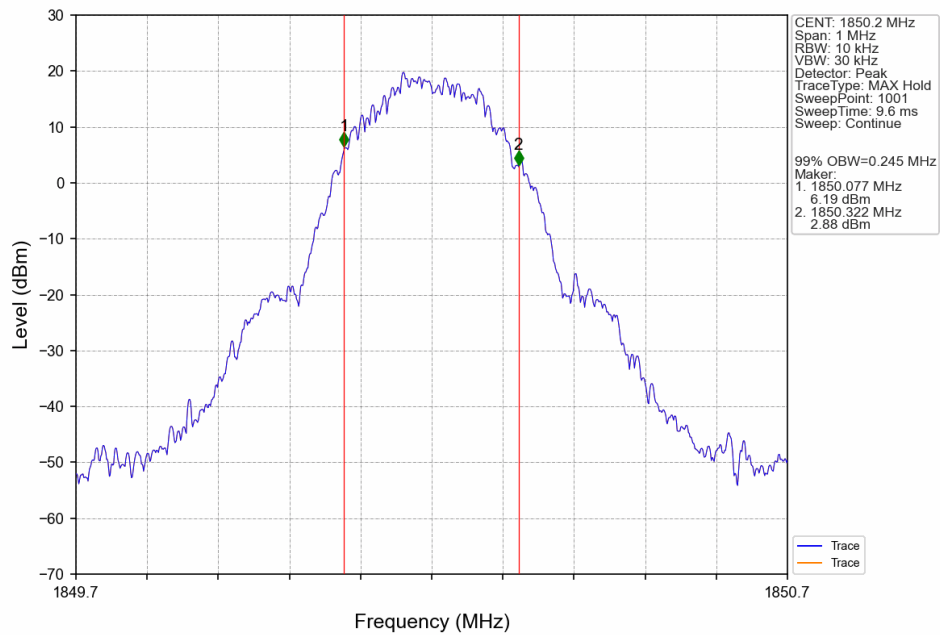
## 3.2.1 PCS1900\_OBW



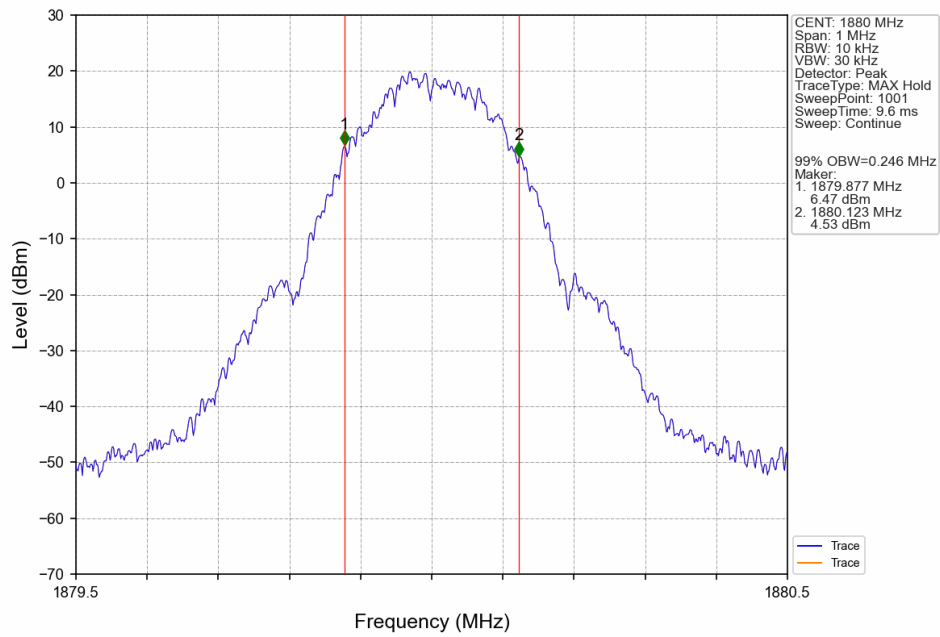
PCS1900 GSM HCH 1909.8MHz GSM NTN



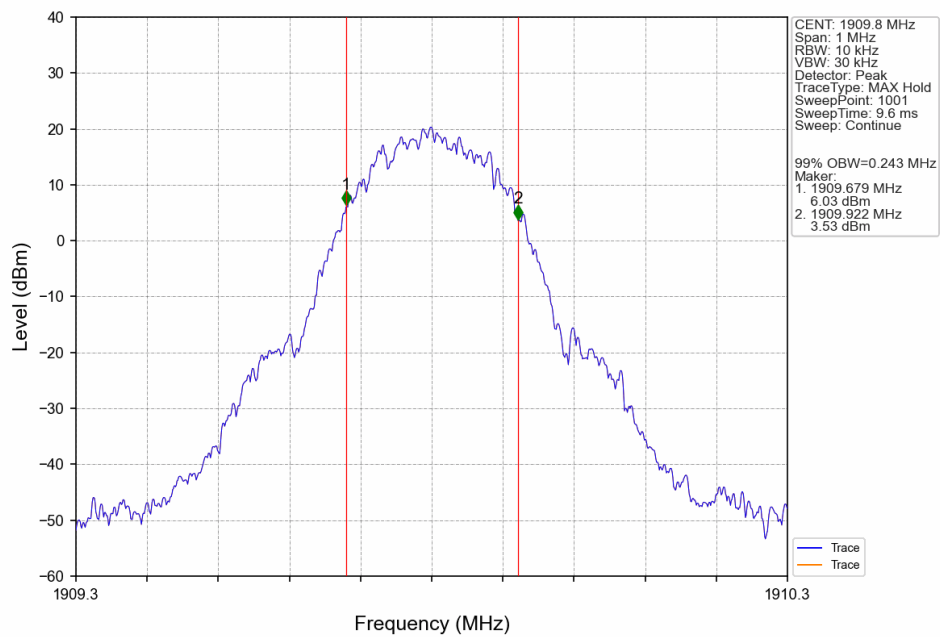
PCS1900\_GPRS\_LCH\_1850.2MHz\_1 TX Slot NTN



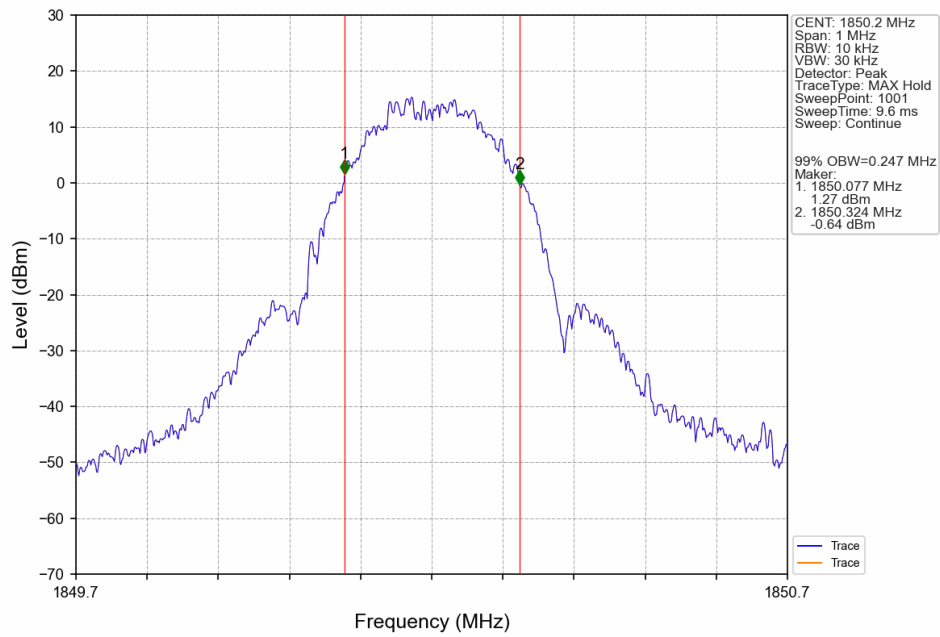
# PCS1900 GPRS MCH 1880MHz 1 TX Slot\_NTNV



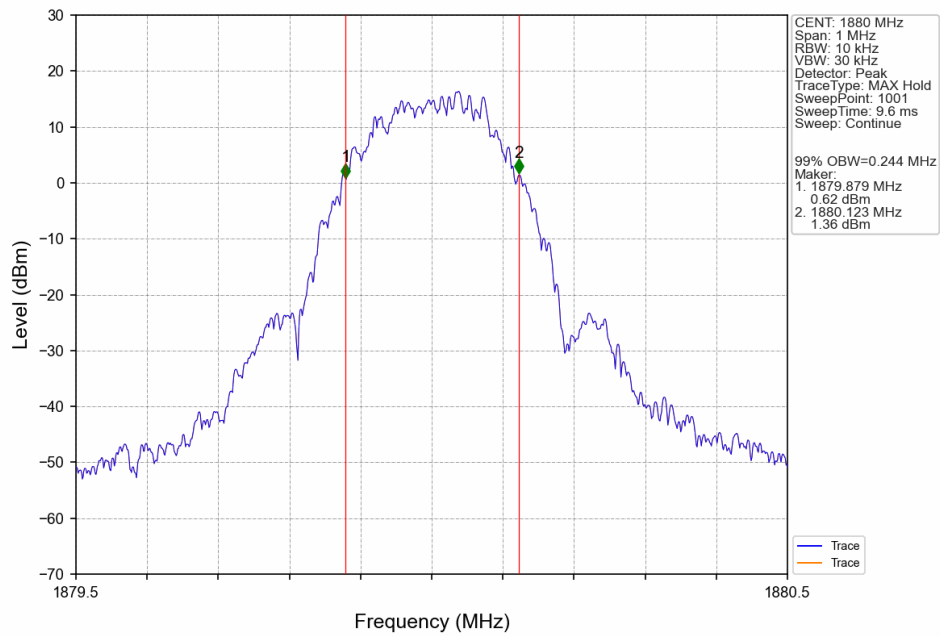
# PCS1900\_GPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV



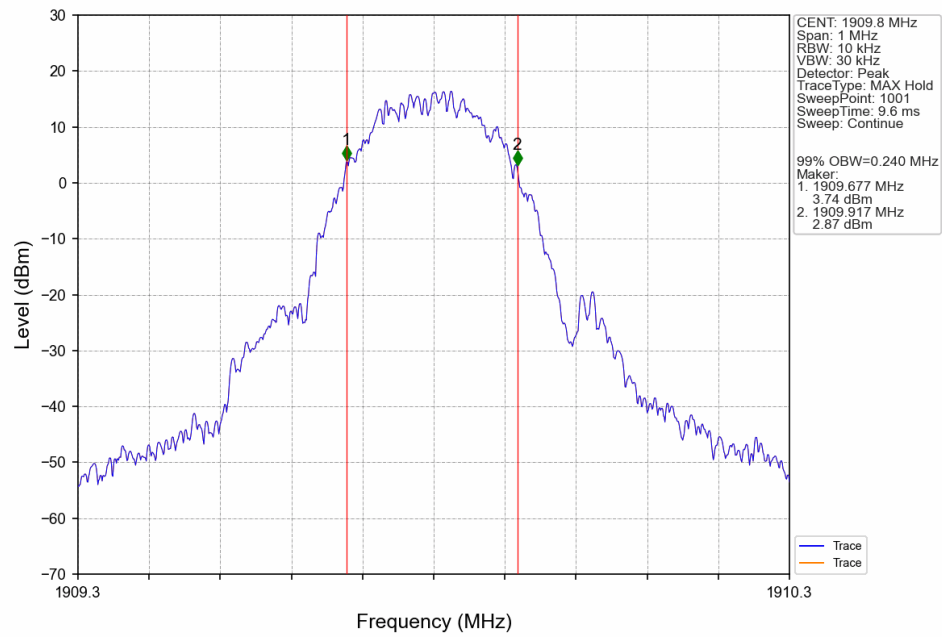
# PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot\_NTNV



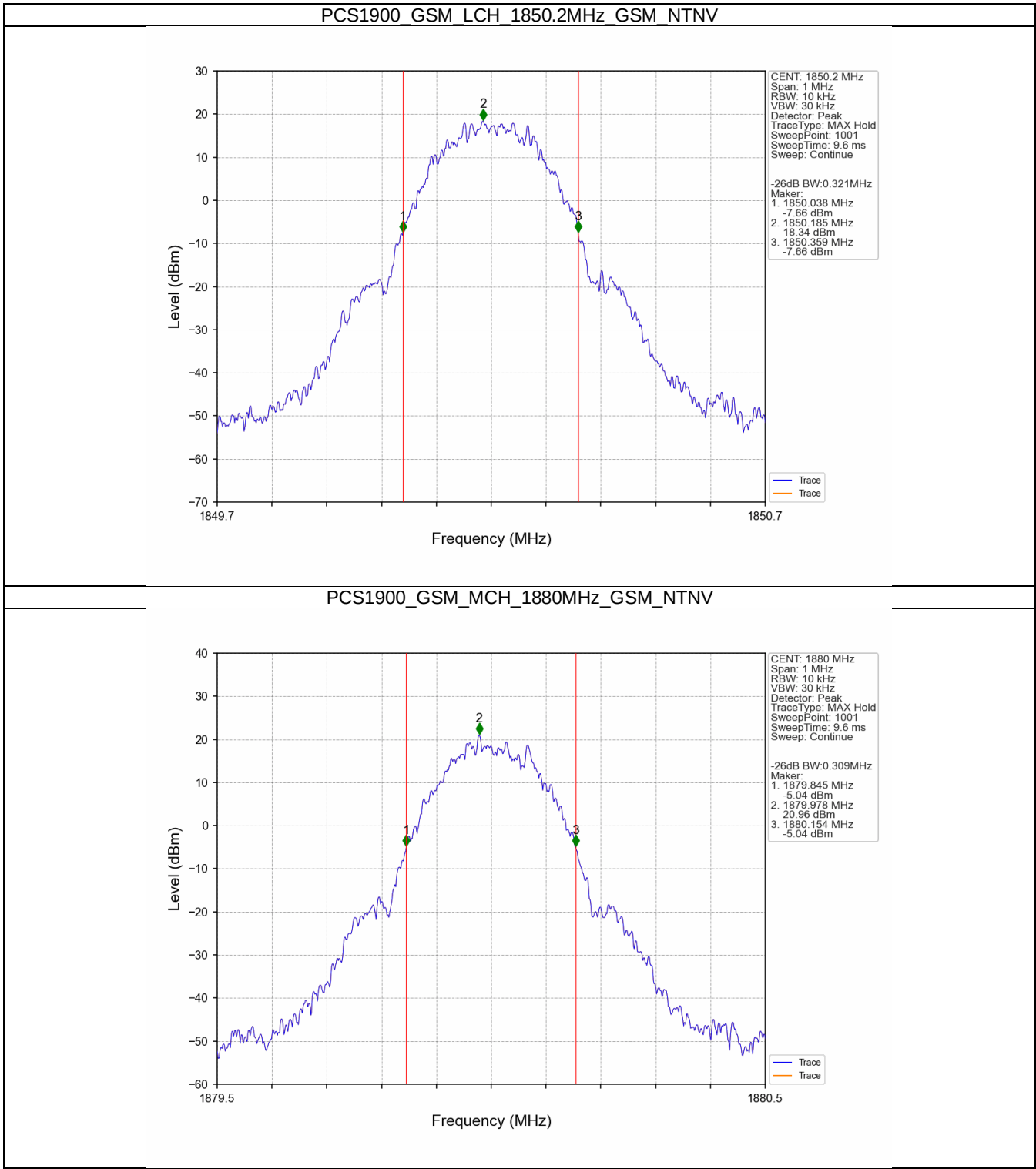
# PCS1900 EGPRS MCH 1880MHz 1 TX Slot\_NTNV



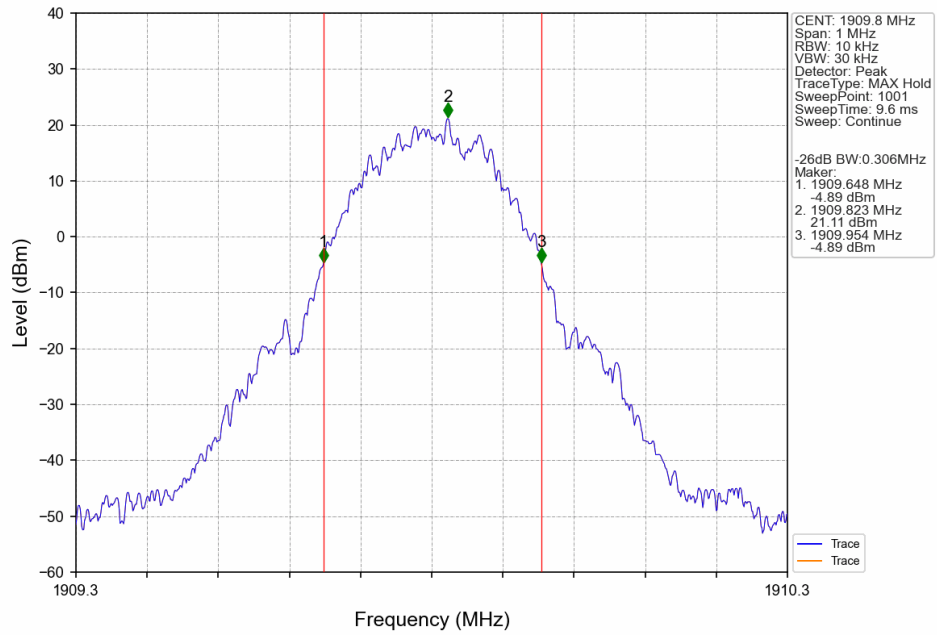
PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV



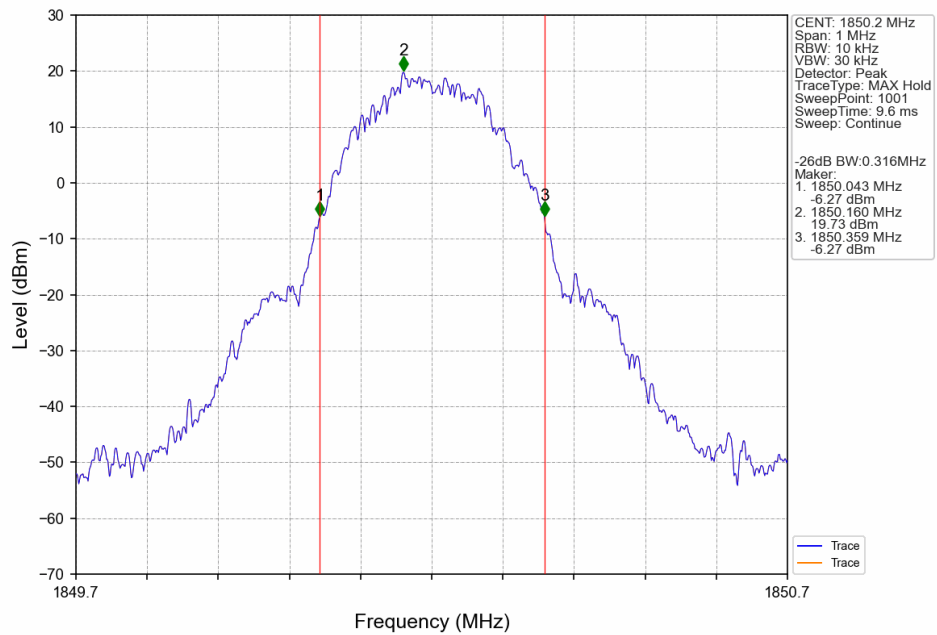
3.2.2 PCS1900\_XDB



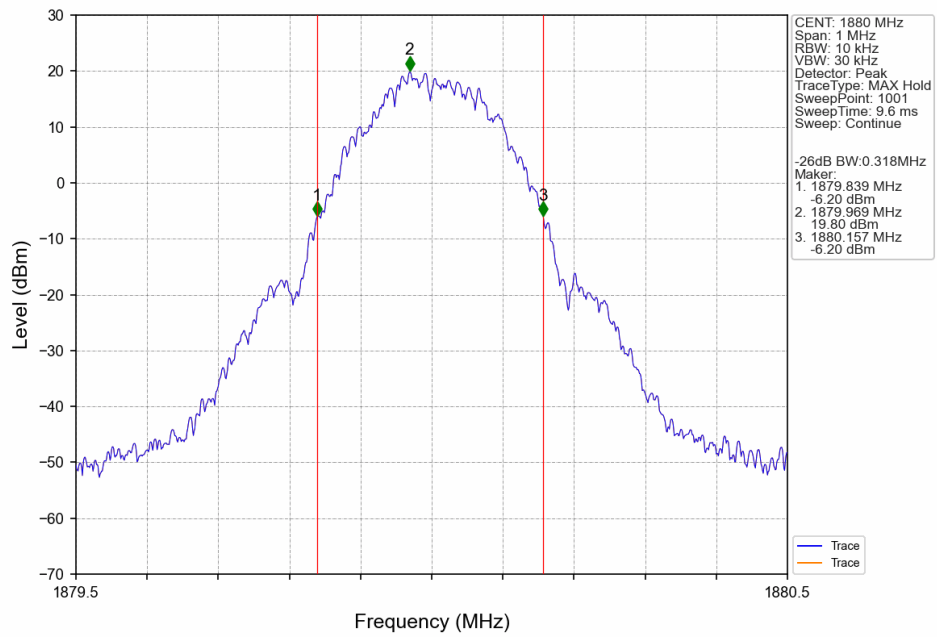
PCS1900 GSM HCH 1909.8MHz GSM NTN



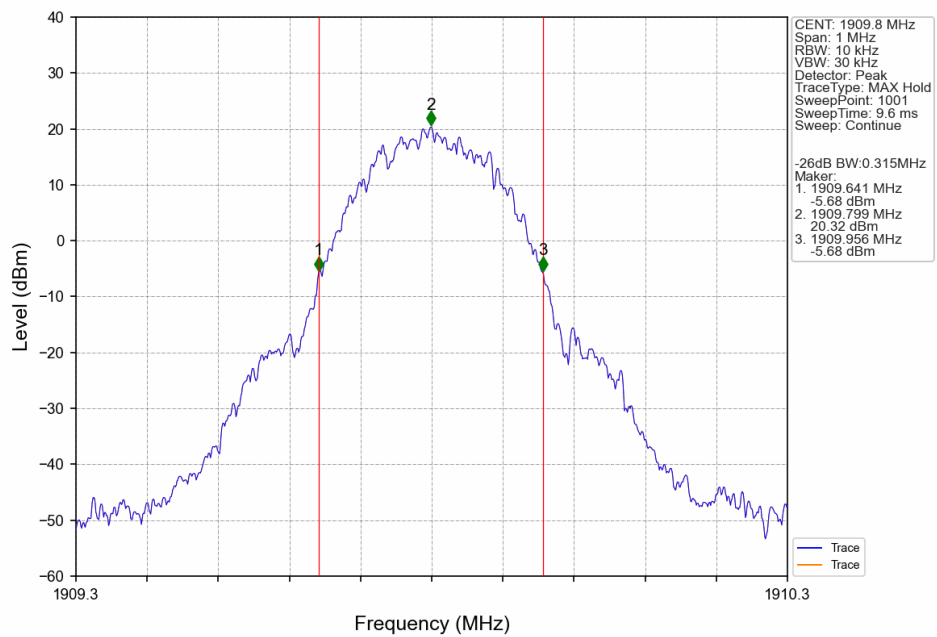
PCS1900\_GPRS\_LCH\_1850.2MHz\_1 TX Slot NTN



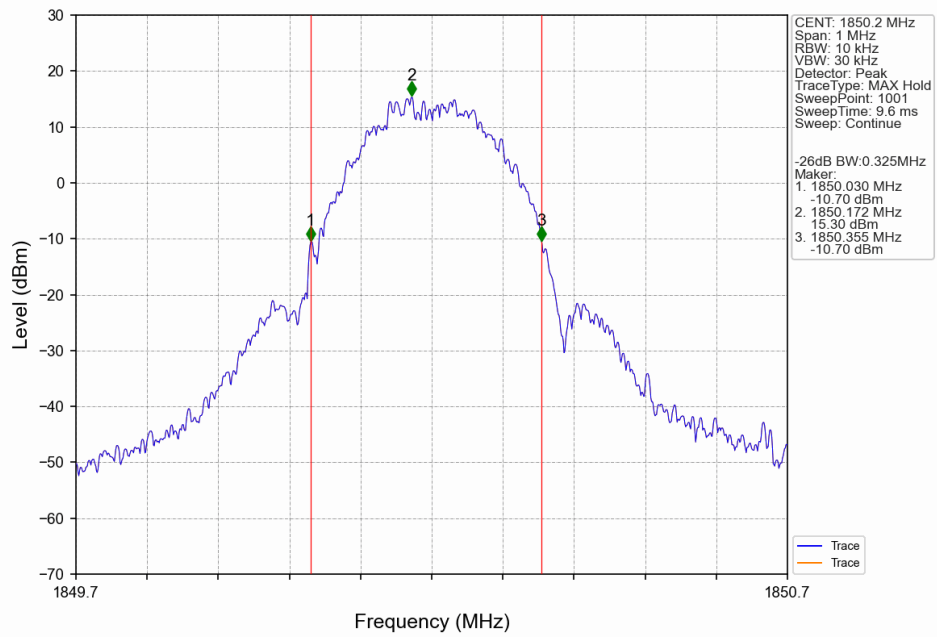
# PCS1900 GPRS MCH 1880MHz 1 TX Slot\_NTNV



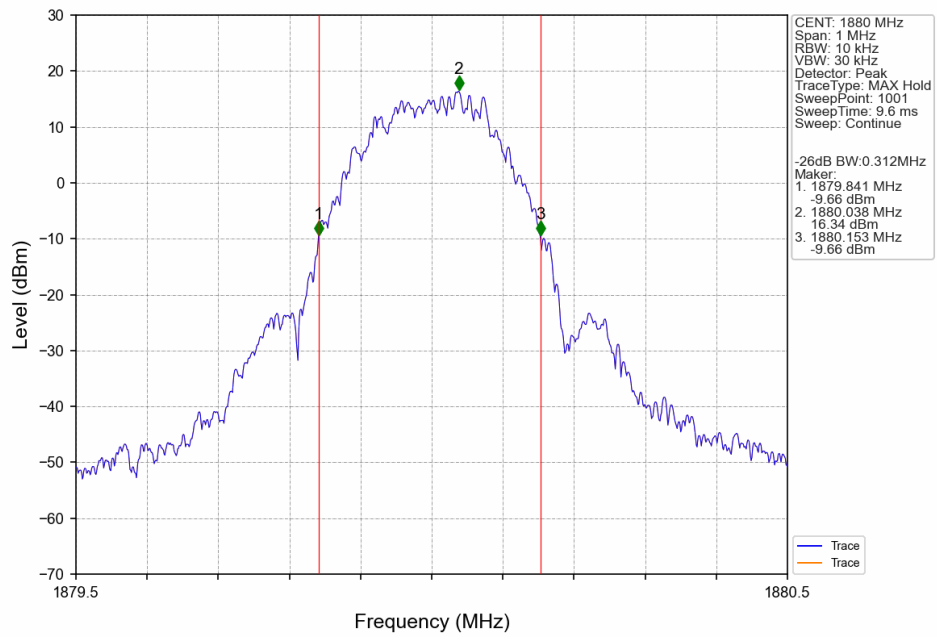
# PCS1900\_GPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV



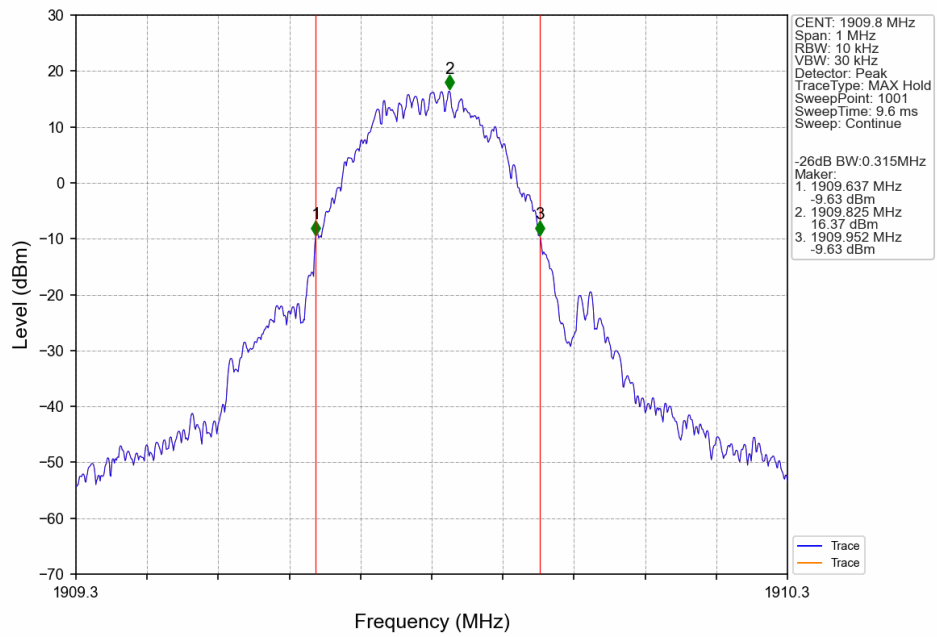
# PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTNV



# PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV



## 4. Peak-Average Ratio

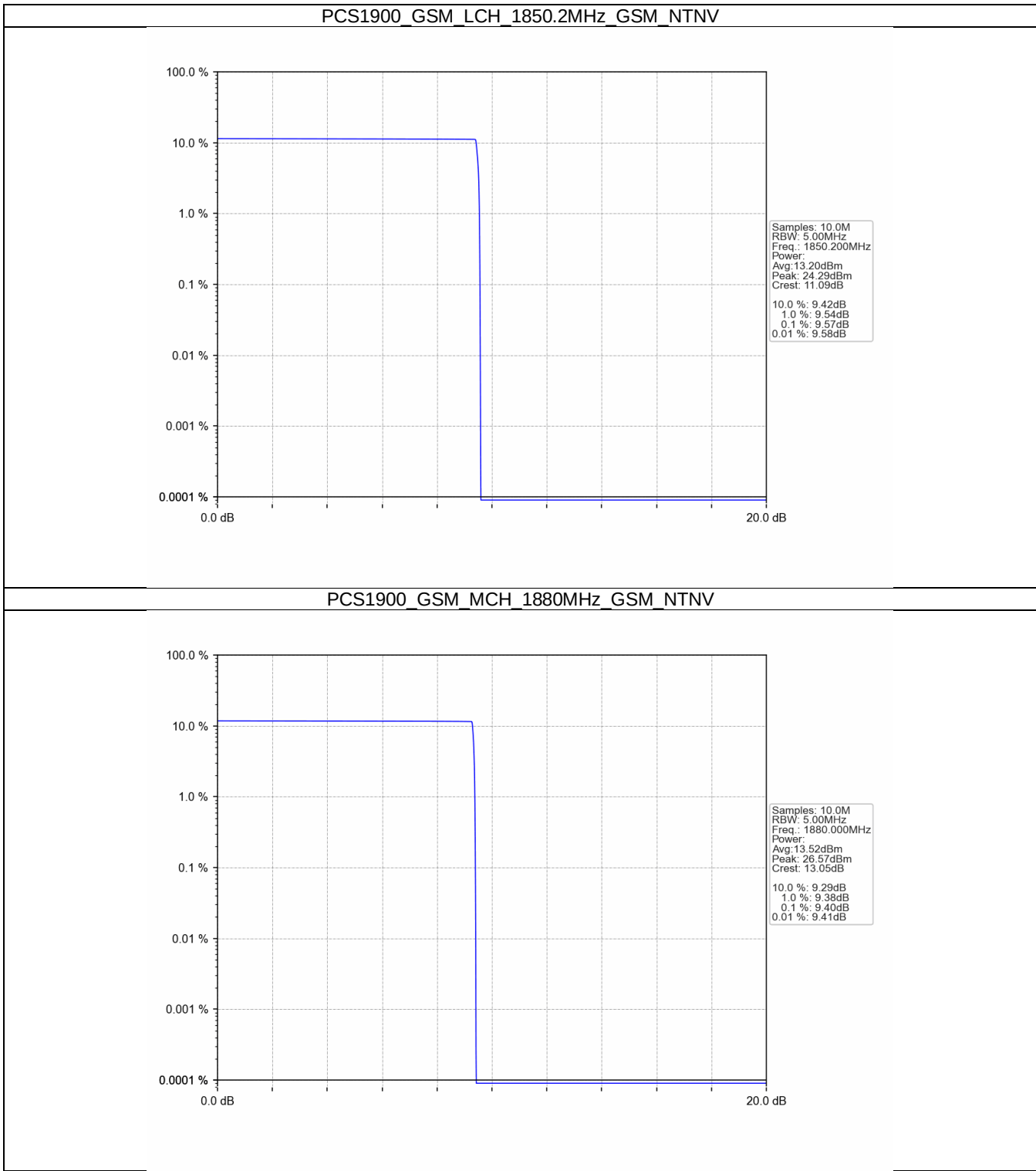
### 4.1 Test Result

#### 4.1.1 PCS1900

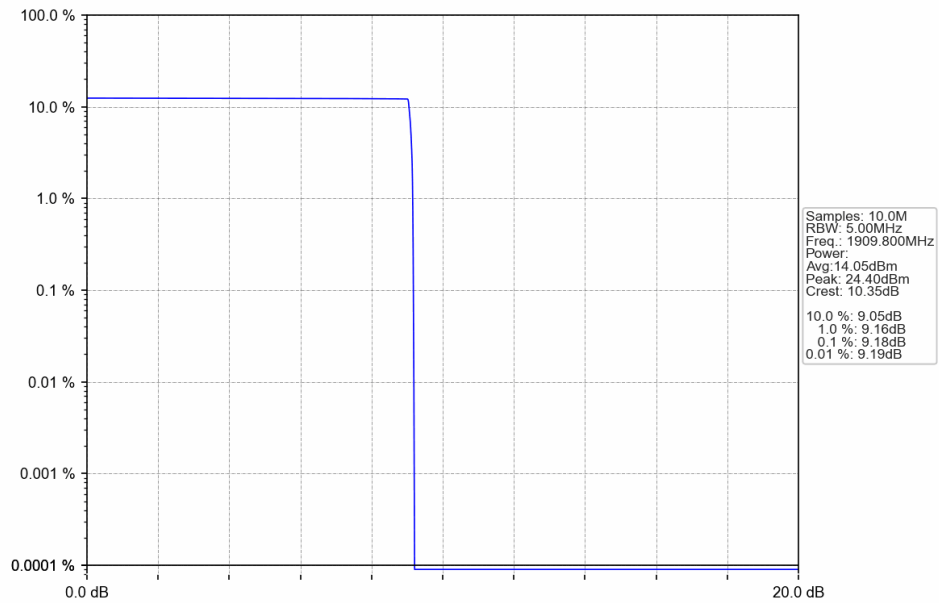
| Band: PCS1900 |         |            |                    |                         |       |         |
|---------------|---------|------------|--------------------|-------------------------|-------|---------|
| ENV           | Mode    |            | Frequency<br>(MHz) | Peak-Average Ratio (dB) |       | Verdict |
|               | Network | Subset     |                    | Result                  | Limit |         |
| NTNV          | GSM     | GSM        | 1850.2             | 9.57                    | <=13  | Pass    |
|               |         |            | 1880               | 9.40                    | <=13  | Pass    |
|               |         |            | 1909.8             | 9.18                    | <=13  | Pass    |
|               | GPRS    | 4 TX Slots | 1850.2             | 3.99                    | <=13  | Pass    |
|               |         |            | 1880               | 3.98                    | <=13  | Pass    |
|               |         |            | 1909.8             | 4.00                    | <=13  | Pass    |
|               | EGPRS   | 4 TX Slots | 1850.2             | 6.76                    | <=13  | Pass    |
|               |         |            | 1880               | 6.71                    | <=13  | Pass    |
|               |         |            | 1909.8             | 6.73                    | <=13  | Pass    |

# 4.2 Test Graph

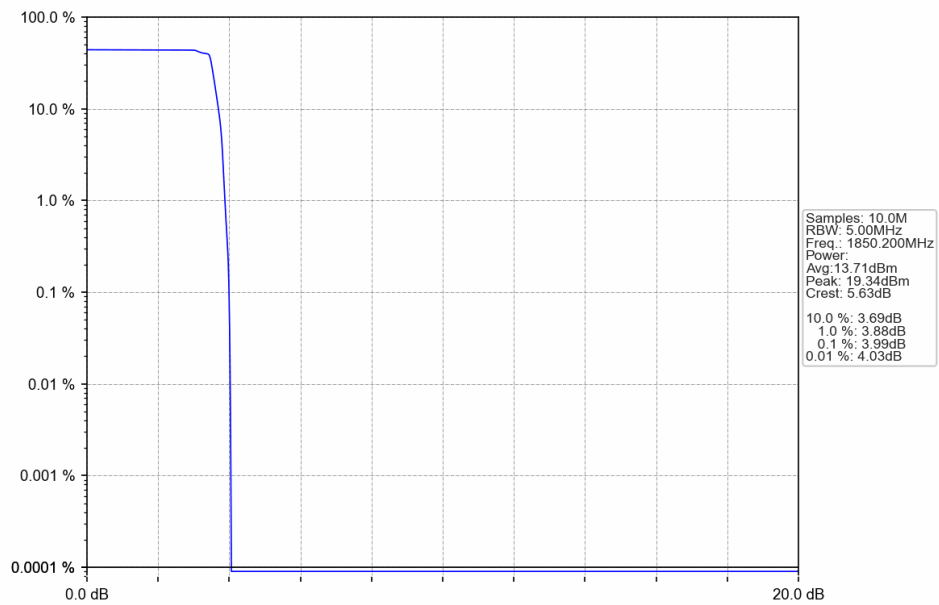
## 4.2.1 PCS1900



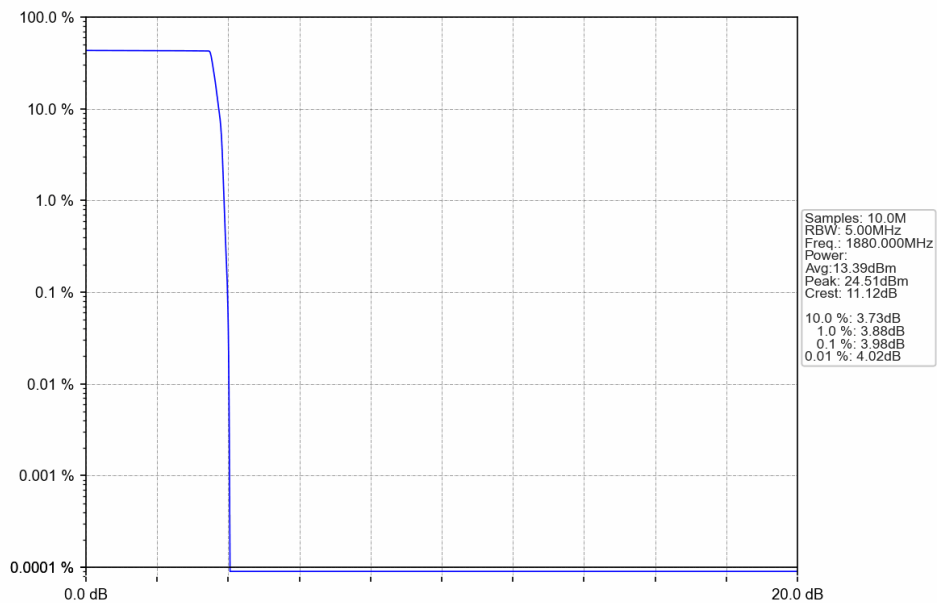
# PCS1900 GSM HCH 1909.8MHz GSM NTN



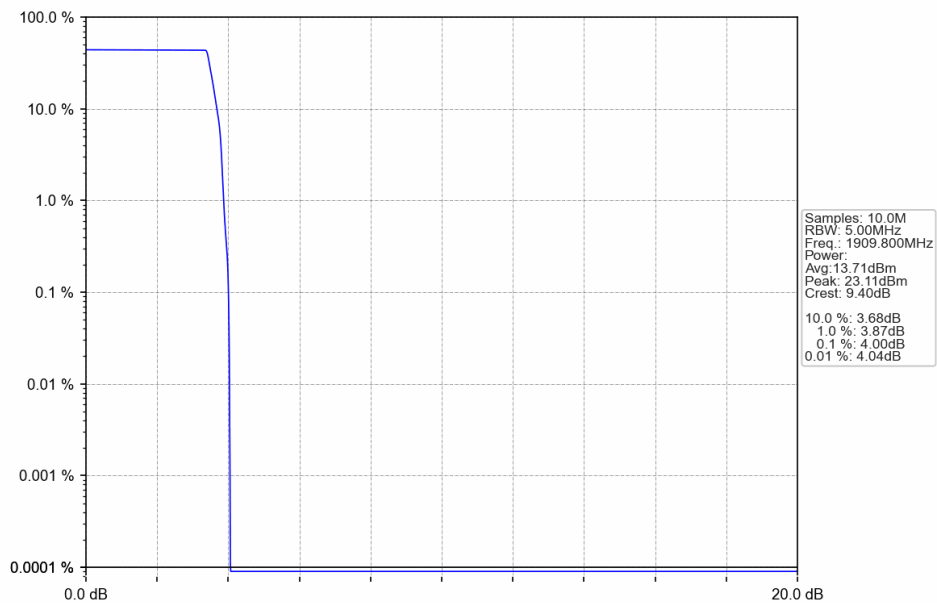
# PCS1900 GPRS LCH 1850.2MHz 4 TX Slots NTN



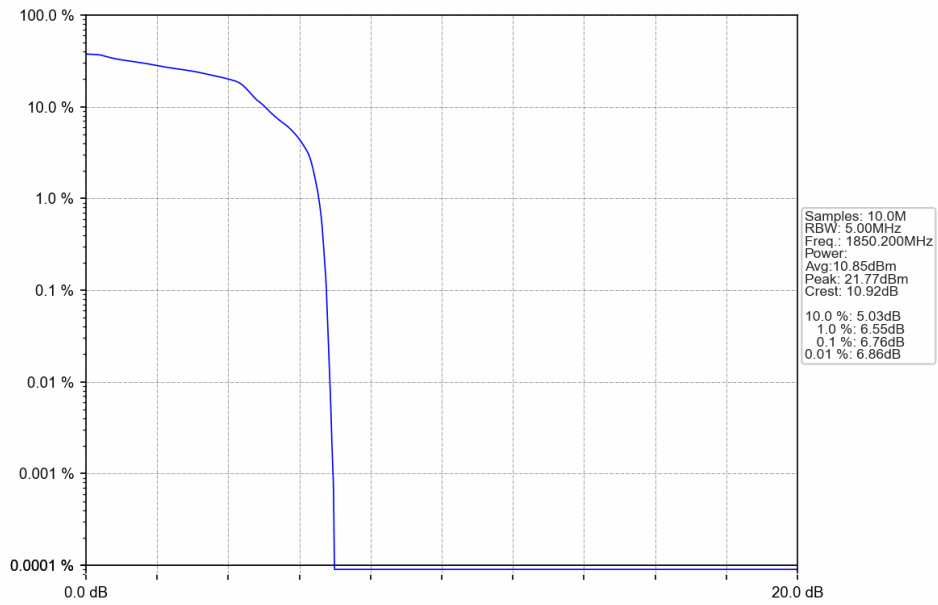
PCS1900\_GPRS\_MCH\_1880MHz\_4 TX Slots\_NTNV



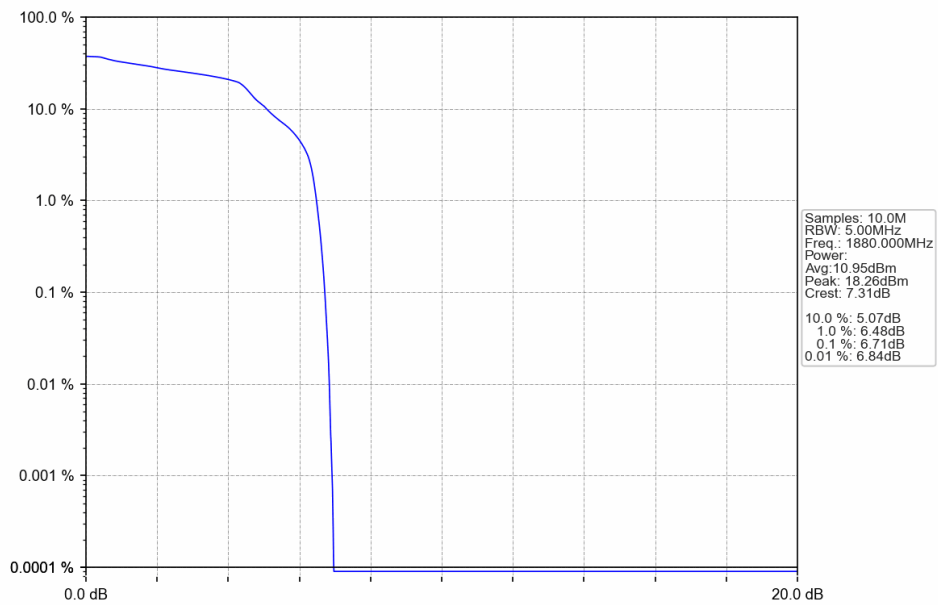
PCS1900\_GPRS\_HCH\_1909.8MHz\_4 TX Slots\_NTNV



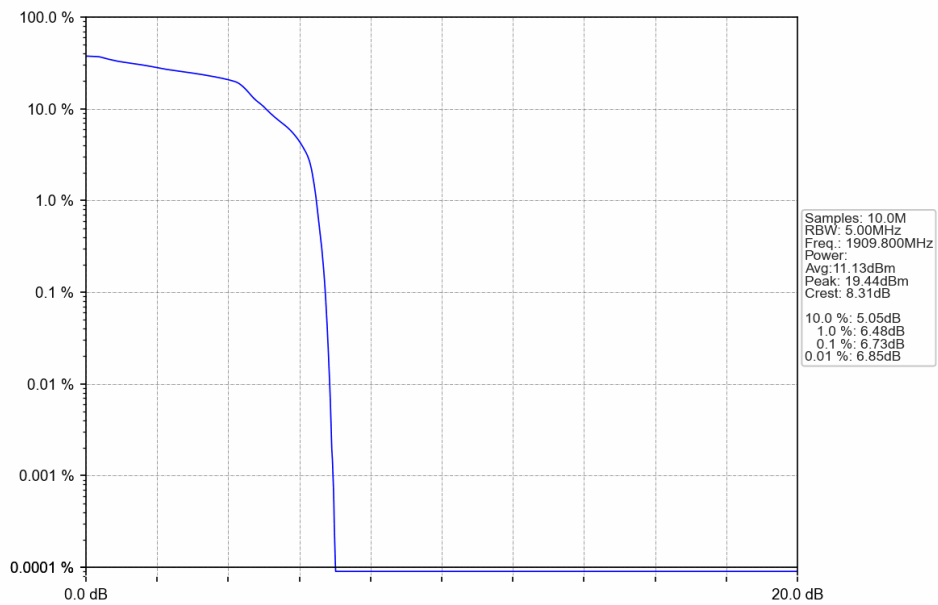
# PCS1900 EGPRS LCH 1850.2MHz 4 TX Slots NTNV



# PCS1900 EGPRS MCH 1880MHz 4 TX Slots NTNV



PCS1900 EGPRS HCH 1909.8MHz 4 TX Slots NTNV



## 5. Spurious Emission

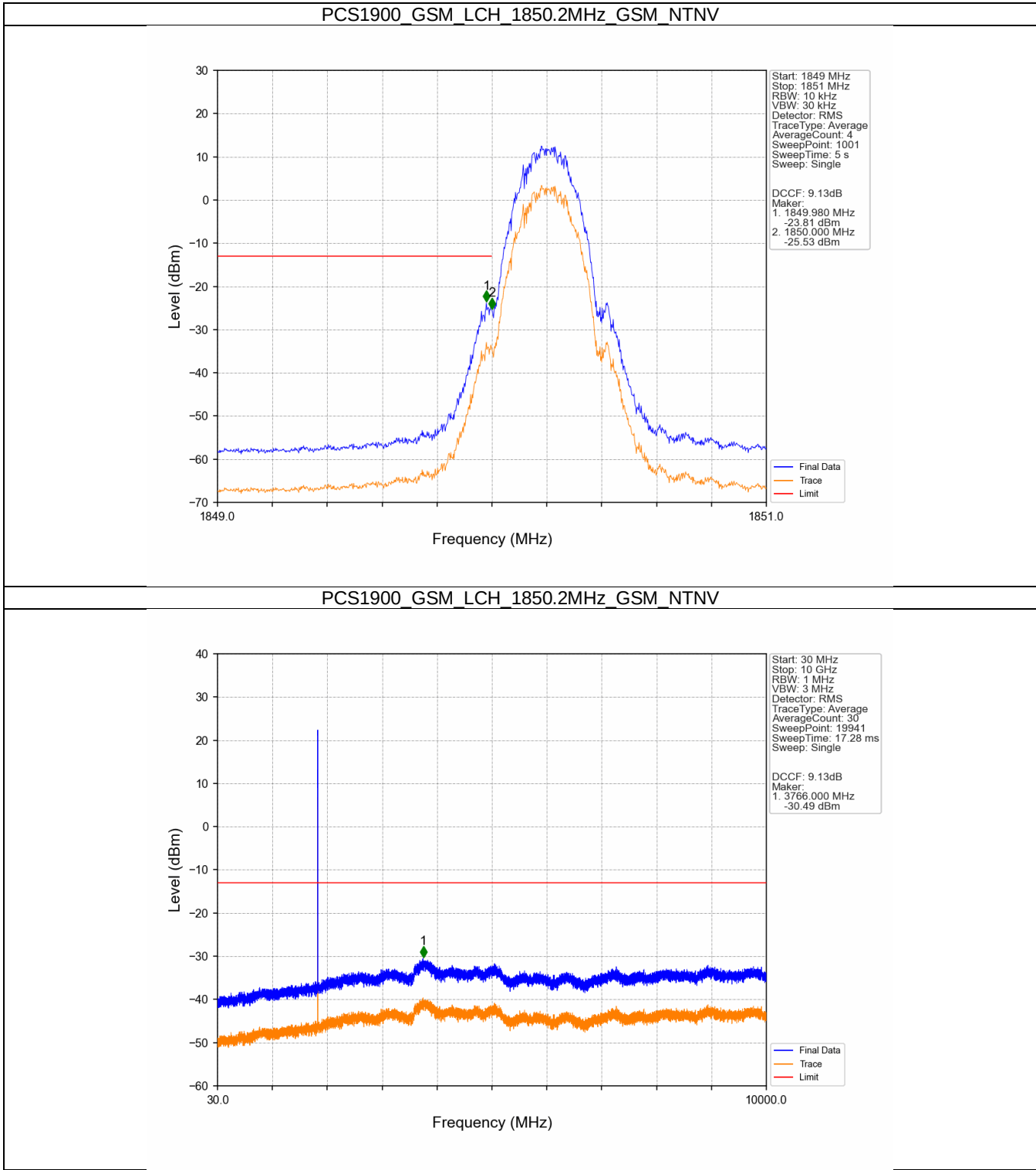
### 5.1 Test Result

#### 5.1.1 PCS1900

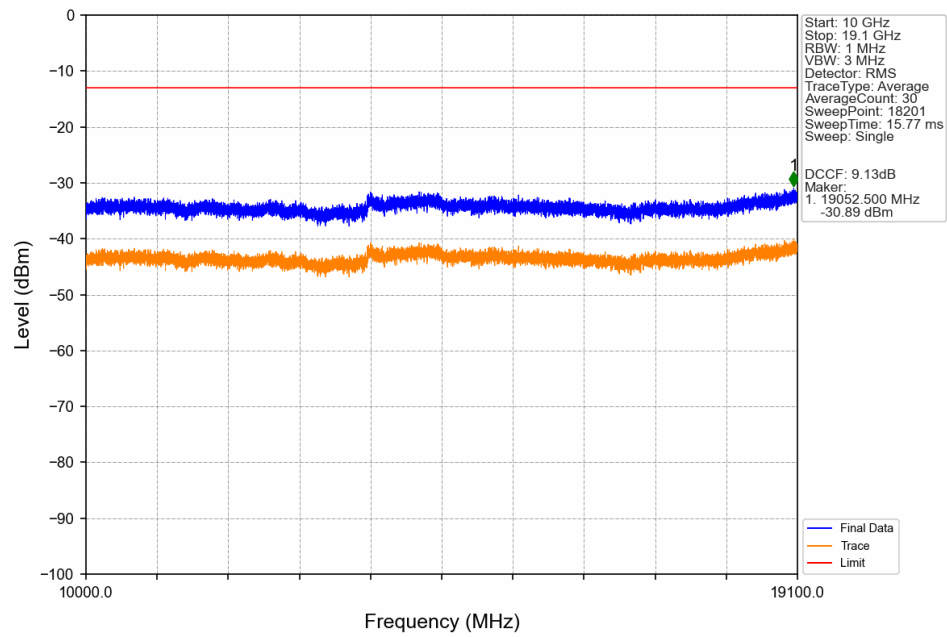
| Band: PCS1900 |         |           |                    |                     |       |         |
|---------------|---------|-----------|--------------------|---------------------|-------|---------|
| ENV           | Mode    |           | Frequency<br>(MHz) | Spurious Emission   |       | Verdict |
|               | Network | Subset    |                    | Result              | Limit |         |
| NTNV          | GSM     | GSM       | 1850.2             | Refer To Test Graph | Pass  |         |
|               |         |           | 1880               | Refer To Test Graph | Pass  |         |
|               |         |           | 1909.8             | Refer To Test Graph | Pass  |         |
|               | GPRS    | 1 TX Slot | 1850.2             | Refer To Test Graph | Pass  |         |
|               |         |           | 1880               | Refer To Test Graph | Pass  |         |
|               |         |           | 1909.8             | Refer To Test Graph | Pass  |         |
|               | EGPRS   | 1 TX Slot | 1850.2             | Refer To Test Graph | Pass  |         |
|               |         |           | 1880               | Refer To Test Graph | Pass  |         |
|               |         |           | 1909.8             | Refer To Test Graph | Pass  |         |

# 5.2 Test Graph

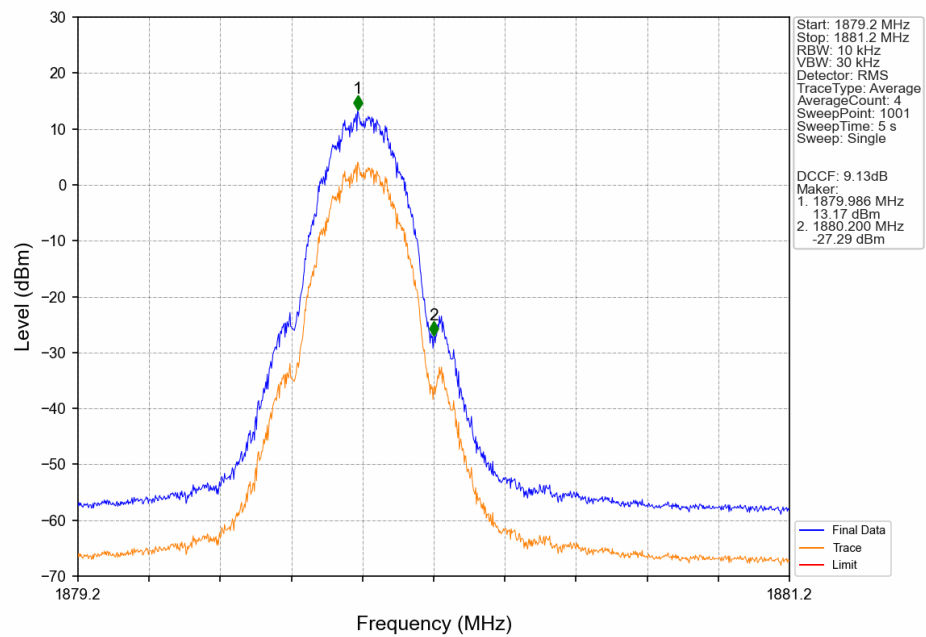
## 5.2.1 PCS1900



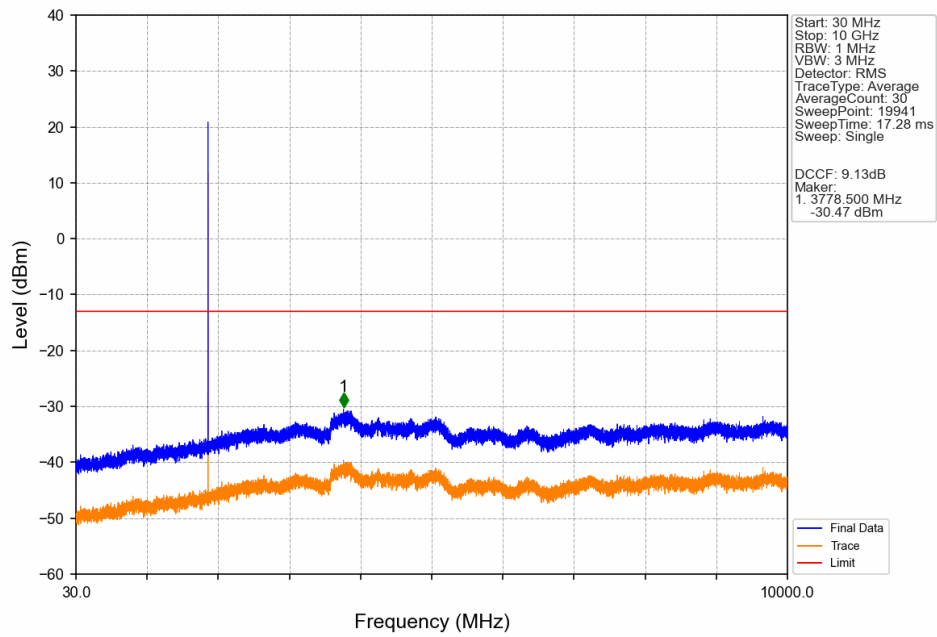
# PCS1900 GSM LCH 1850.2MHz GSM NTN



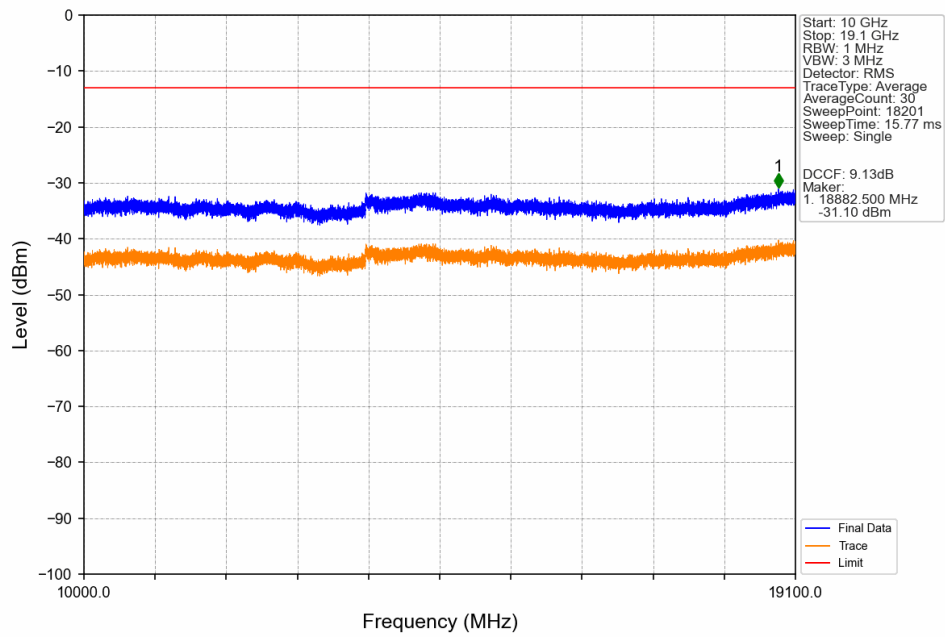
# PCS1900 GSM MCH 1880MHz GSM NTN



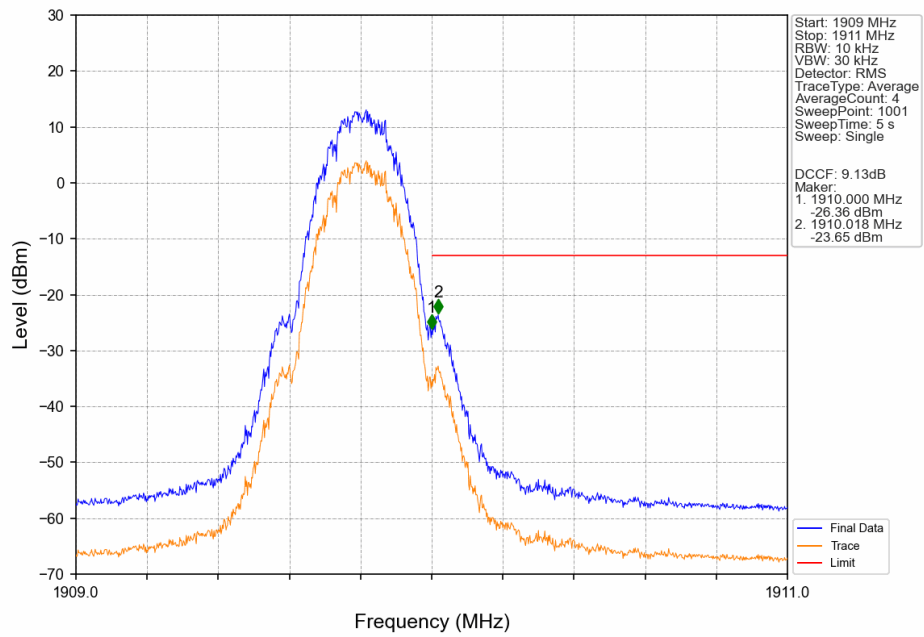
# PCS1900 GSM MCH 1880MHz GSM NTN



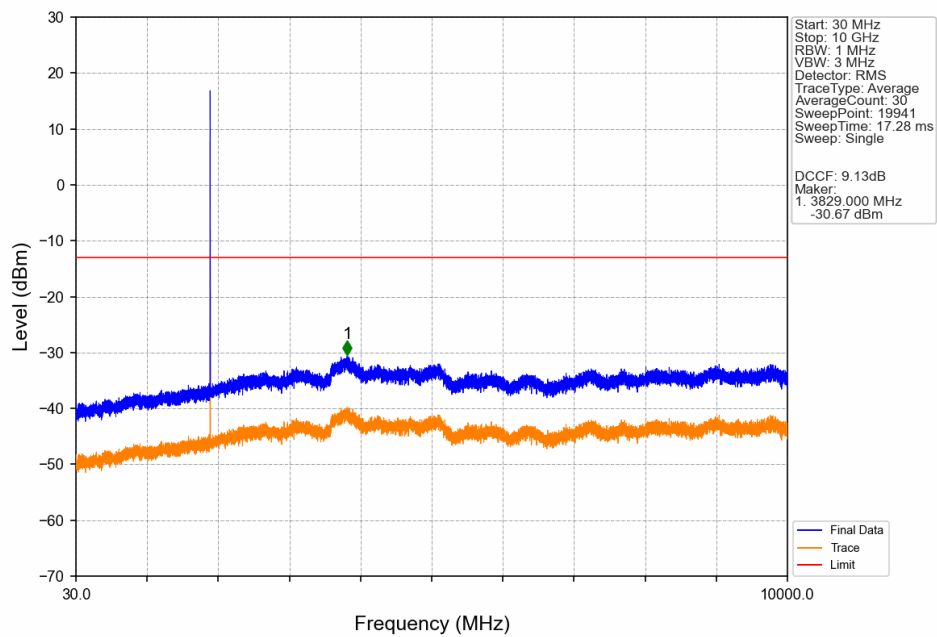
# PCS1900 GSM MCH 1880MHz GSM NTN



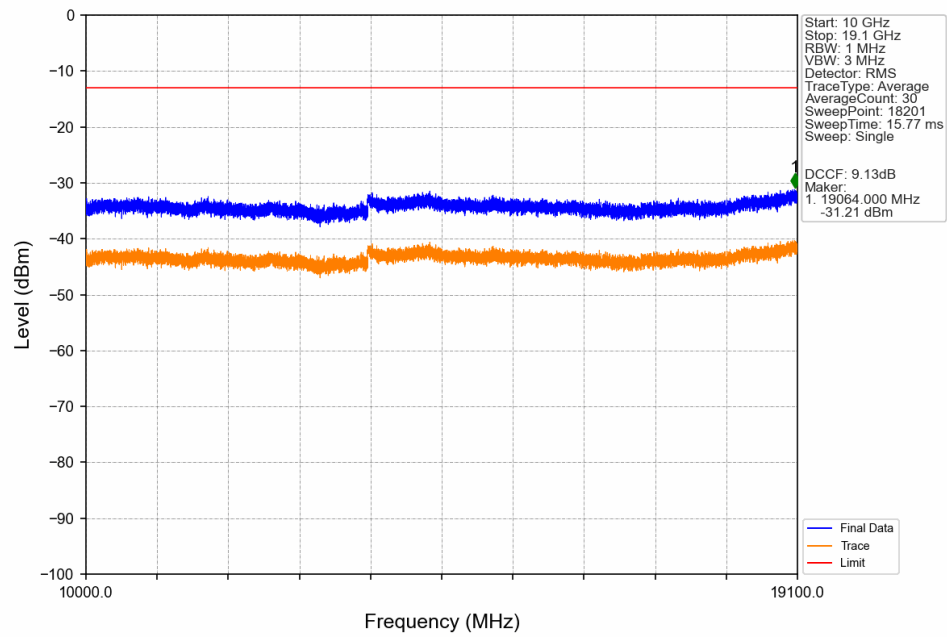
# PCS1900 GSM HCH 1909.8MHz GSM NTN



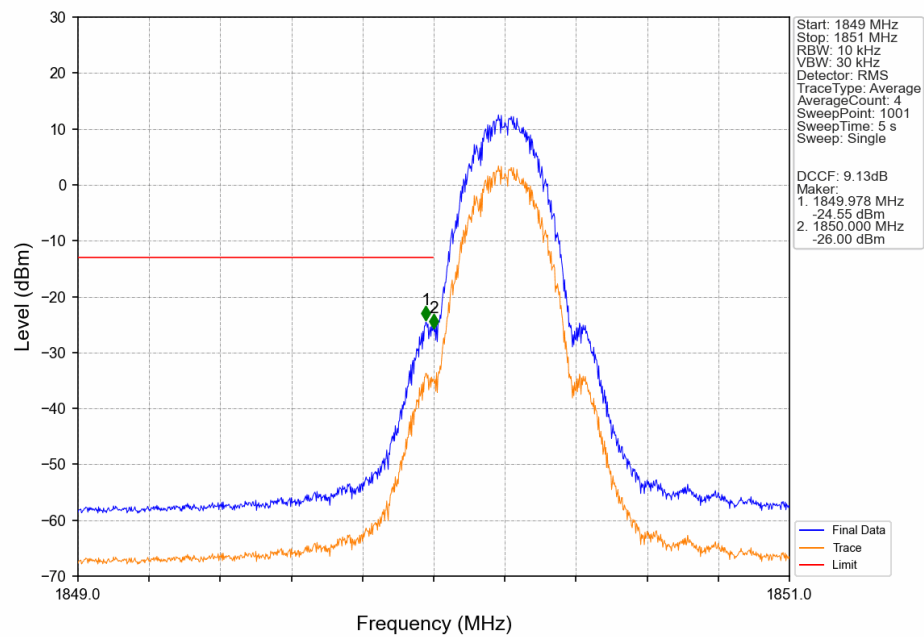
# PCS1900 GSM HCH 1909.8MHz GSM NTN



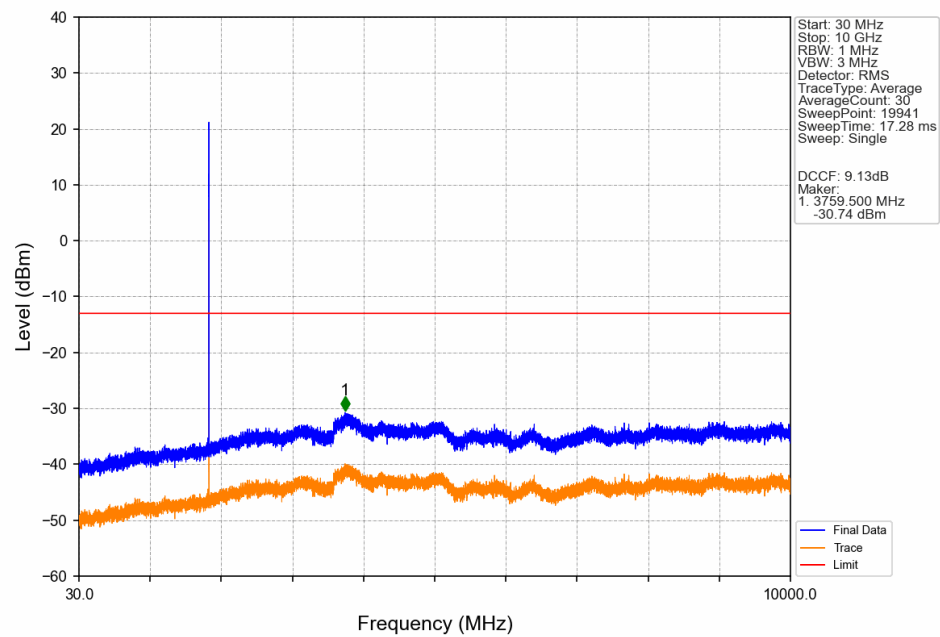
# PCS1900 GSM HCH 1909.8MHz GSM NTN



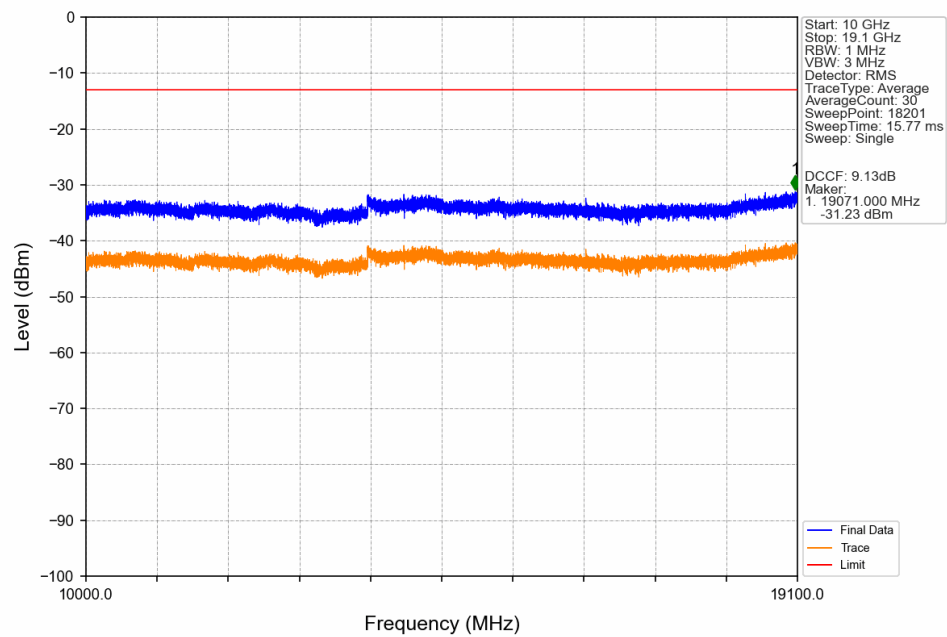
# PCS1900\_GPRS\_LCH\_1850.2MHz\_1 TX Slot NTN



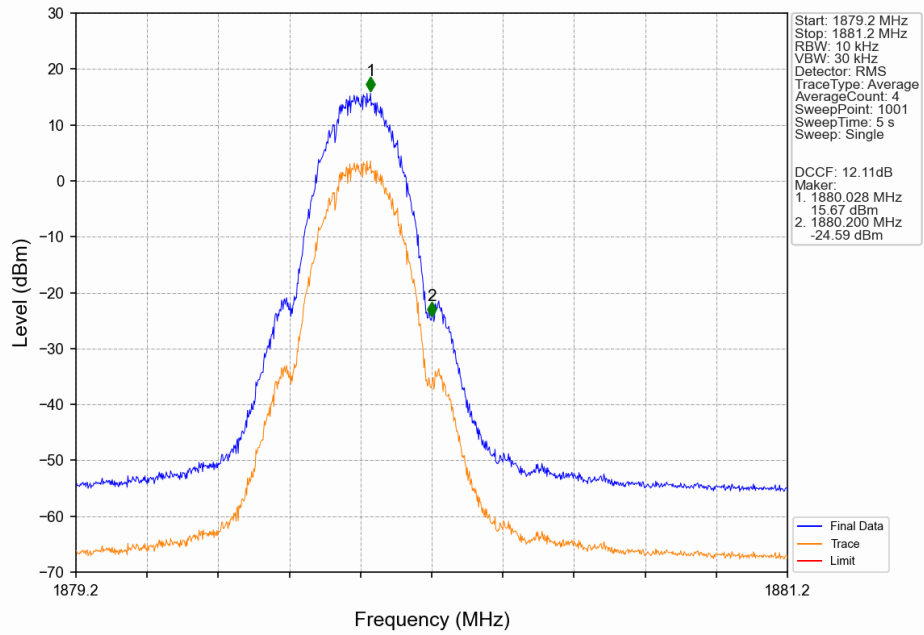
PCS1900\_GPRS\_LCH\_1850.2MHz\_1 TX Slot\_NTNV



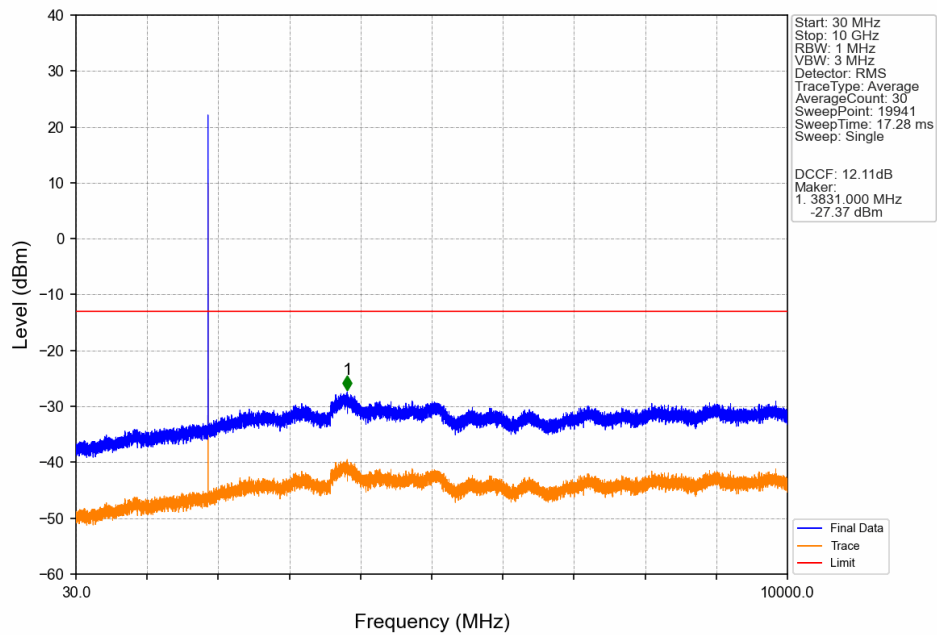
PCS1900\_GPRS\_LCH\_1850.2MHz\_1 TX Slot\_NTNV



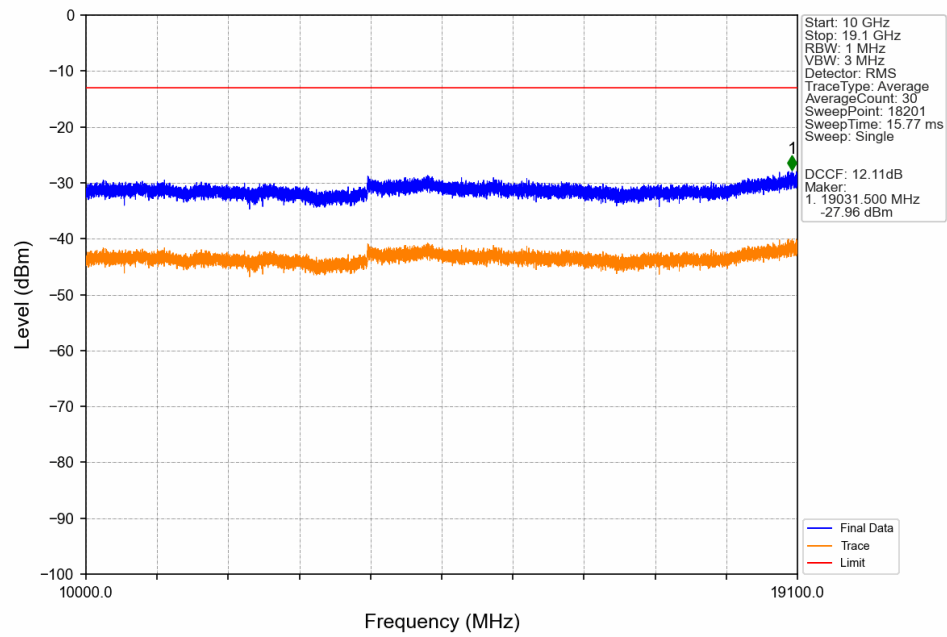
# PCS1900 GPRS MCH 1880MHz 1 TX Slot\_NTNV



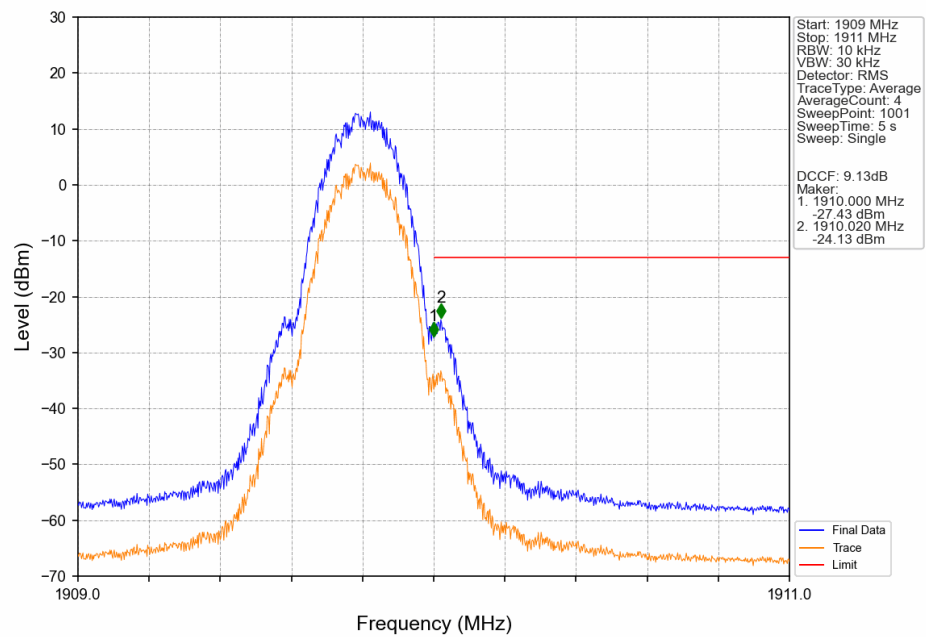
# PCS1900\_GPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



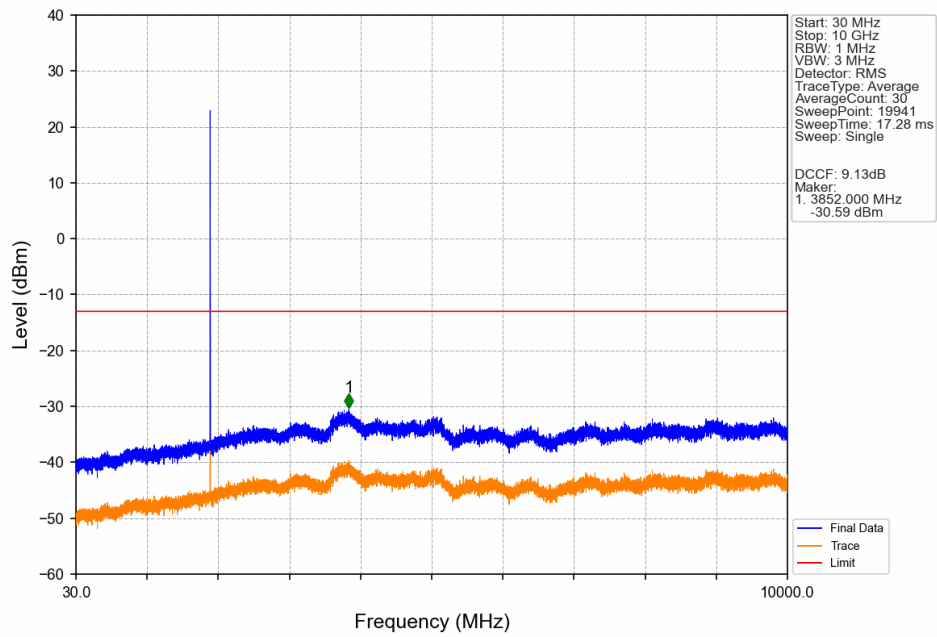
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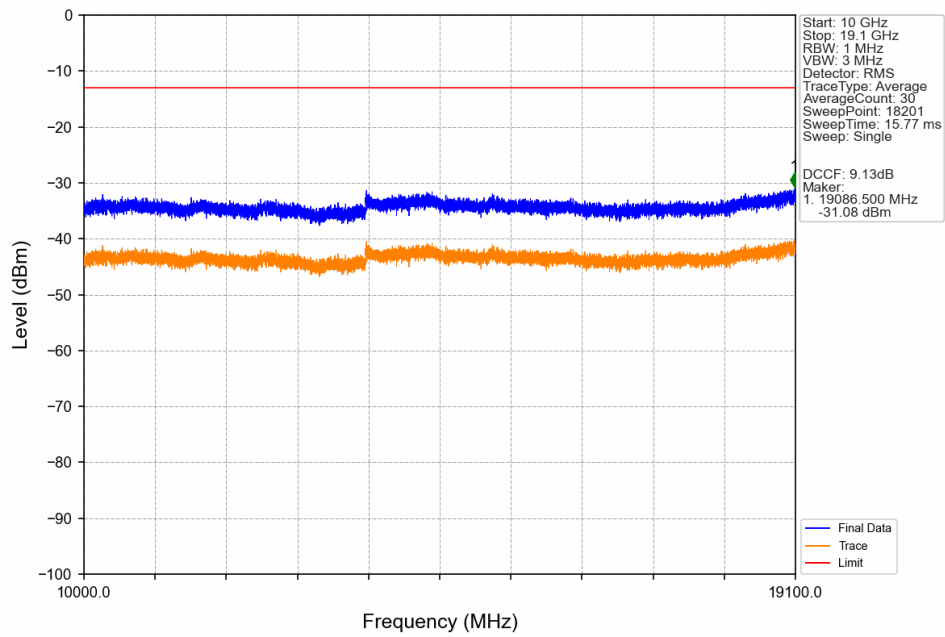
# PCS1900\_GPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV



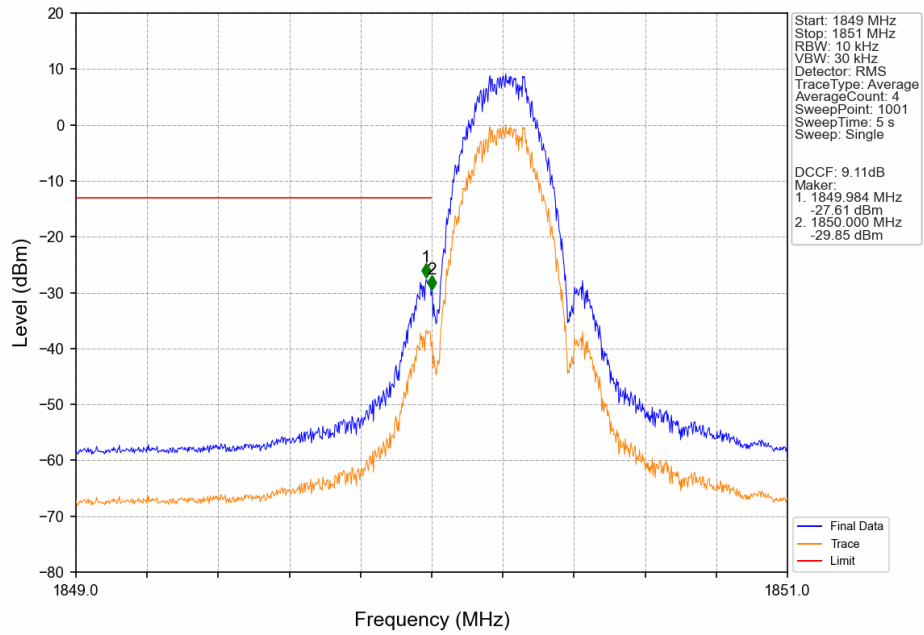
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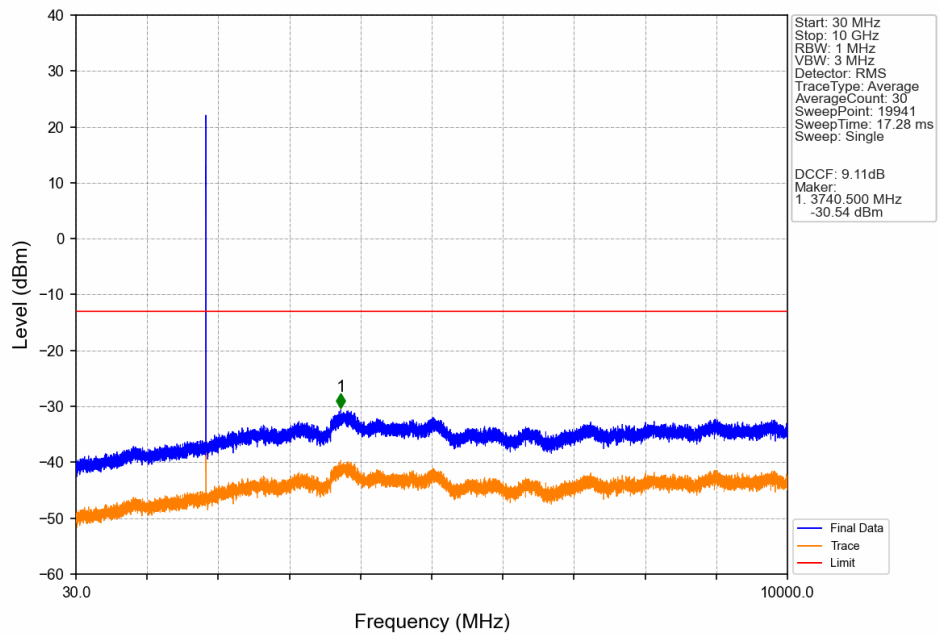
# PCS1900\_GPRS\_HCH\_1909.8MHz\_1 TX Slot NTN



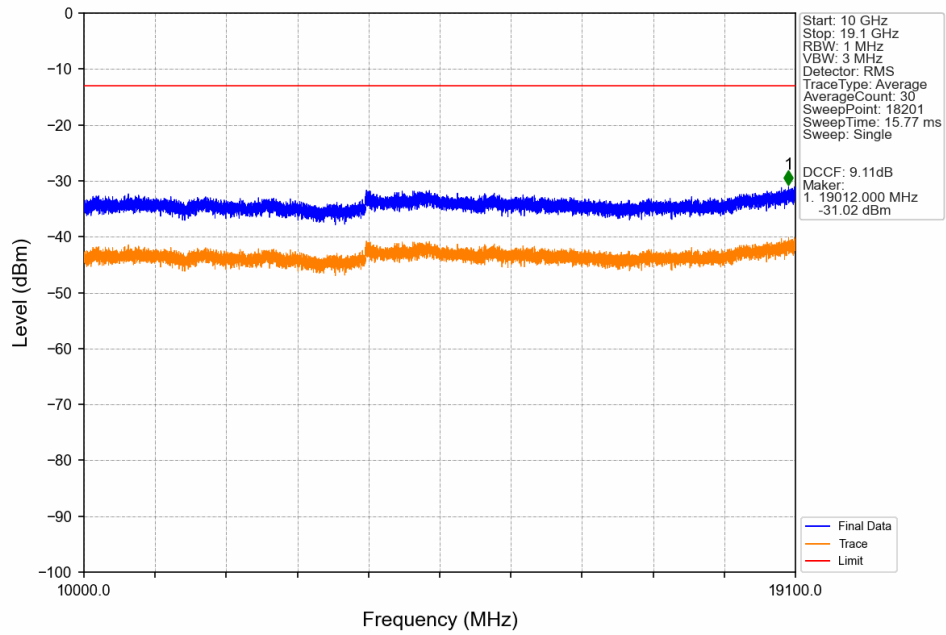
# PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTNV



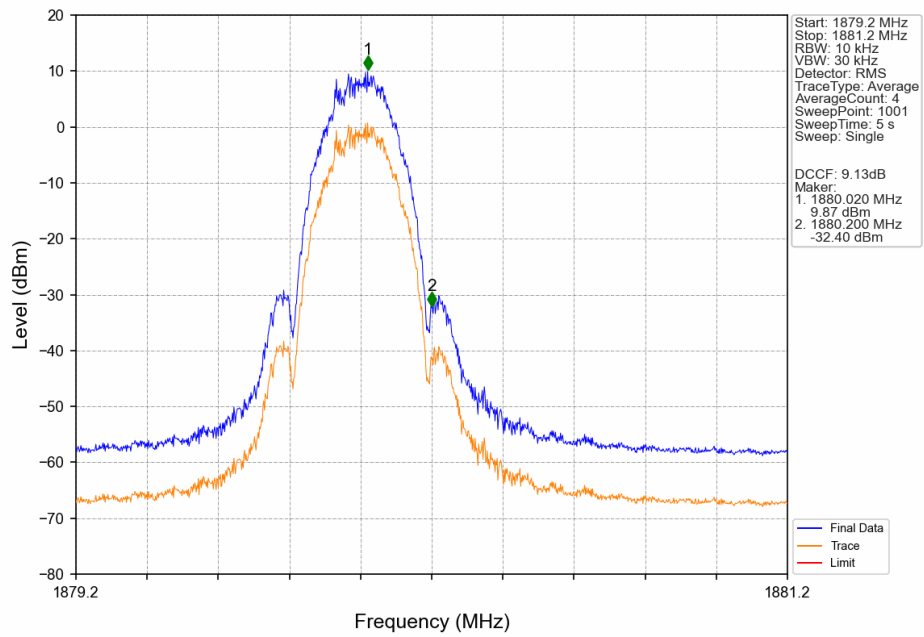
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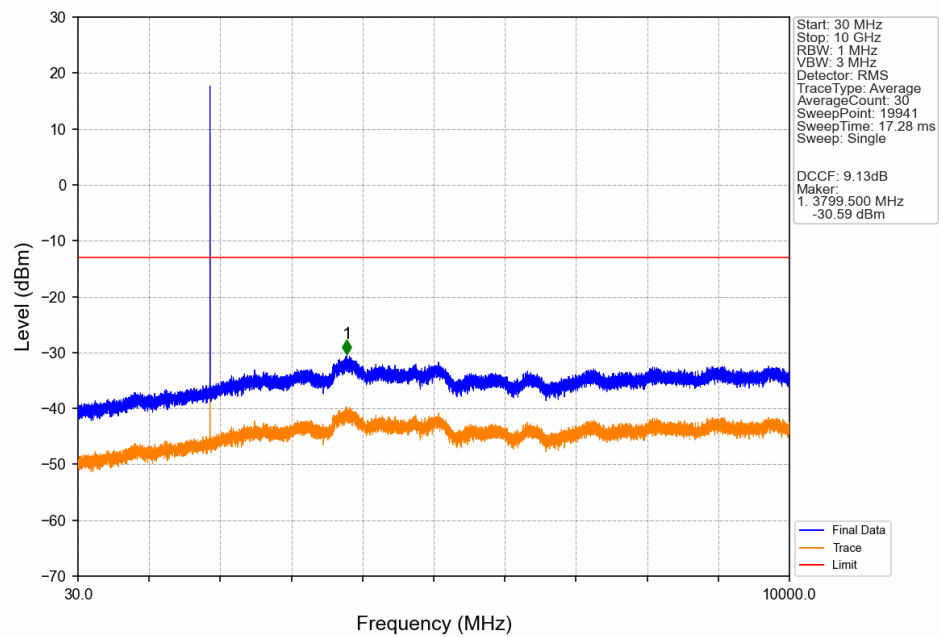
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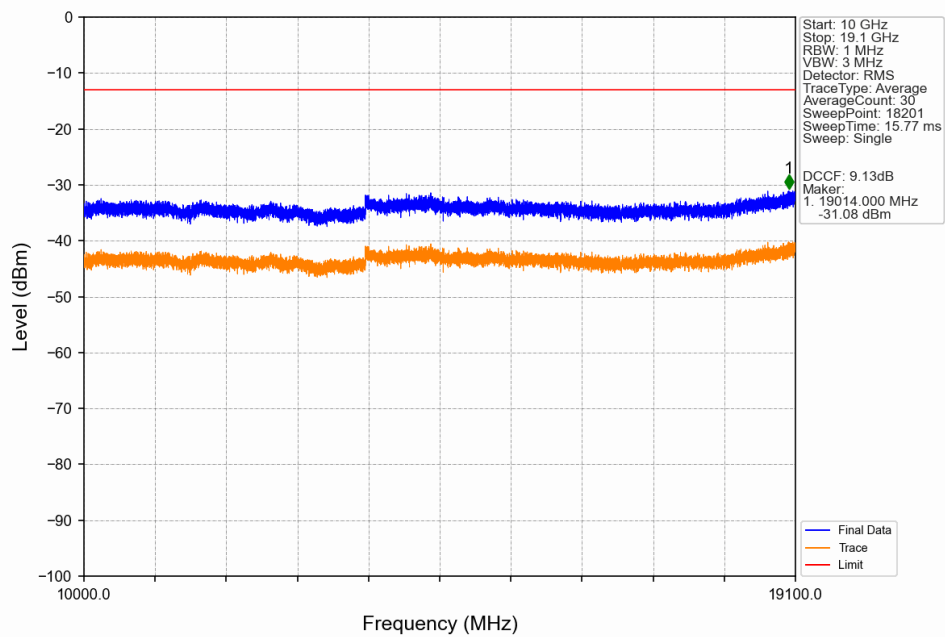
# PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTN



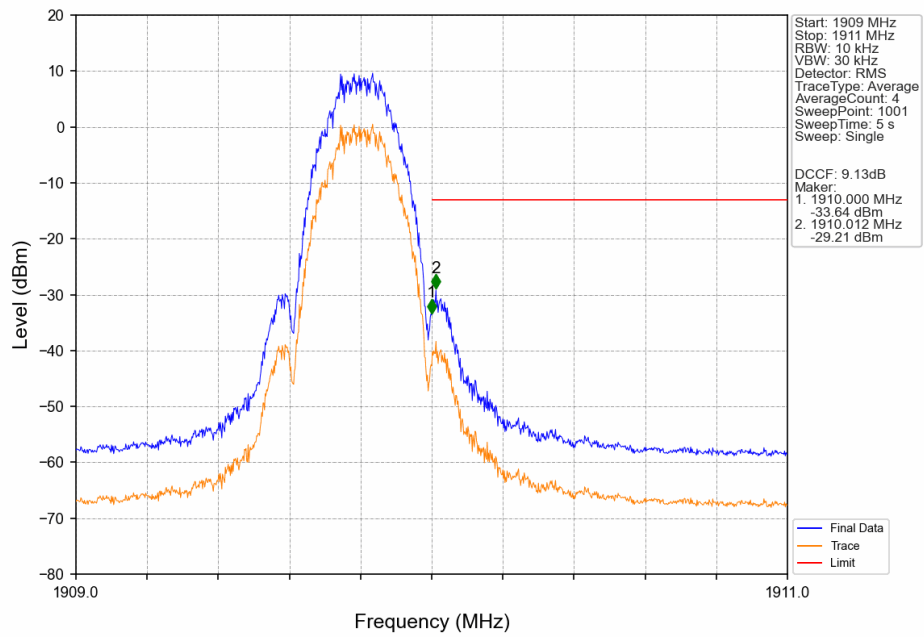
PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTN



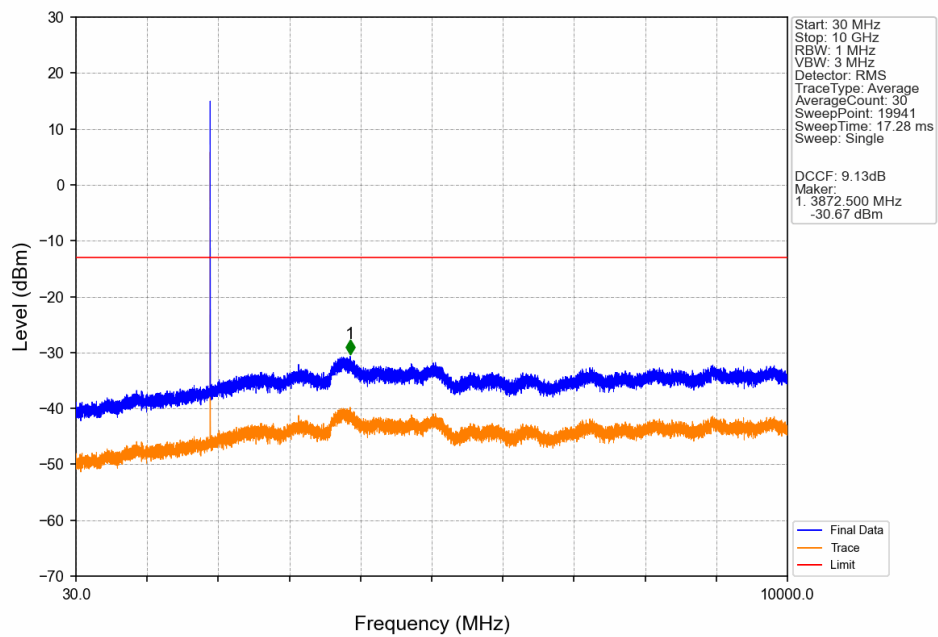
PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTN



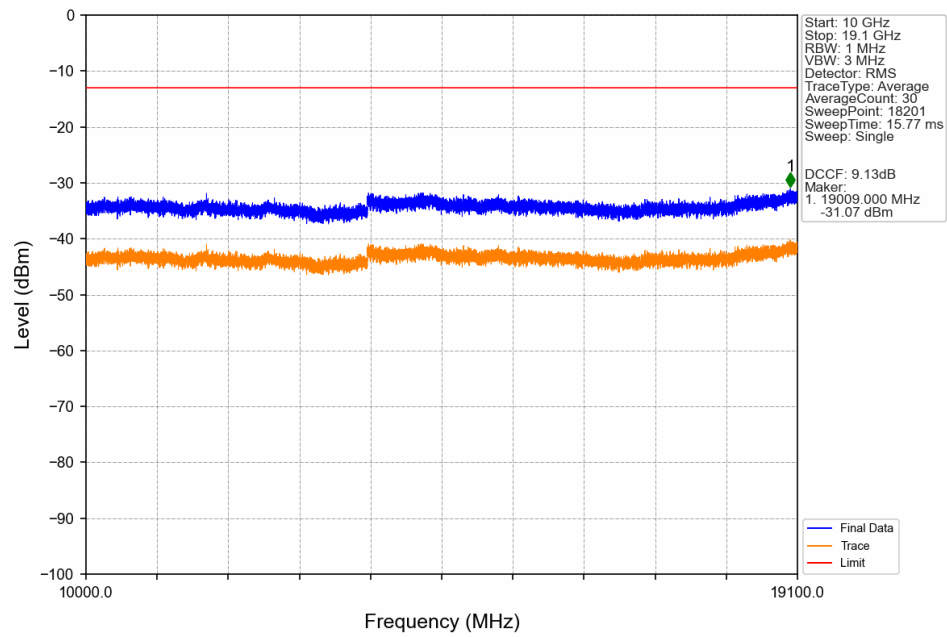
# PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTN



# PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTN



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV



## 6. Field Strength of Spurious Radiation

| GSM1900 ANT4-Low channel |            |             |                 |                  |                 |                    |                    |        |
|--------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)          | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3700.4                   | -59.22     | -13         | -46.22          | -64.08           | 3.58            | 8.44               | Horizontal         | Pass   |
| 5550.6                   | -62.37     | -13         | -49.37          | -68.08           | 4.74            | 10.45              | Horizontal         | Pass   |
| 7400.8                   | -60.48     | -13         | -47.48          | -67.16           | 4.94            | 11.62              | Horizontal         | Pass   |
| 3700.4                   | -59.09     | -13         | -46.09          | -63.95           | 3.58            | 8.44               | Vertical           | Pass   |
| 5550.6                   | -62.17     | -13         | -49.17          | -67.88           | 4.74            | 10.45              | Vertical           | Pass   |
| 7400.8                   | -60.18     | -13         | -47.18          | -66.86           | 4.94            | 11.62              | Vertical           | Pass   |

| GSM1900 ANT4-Middle channel |            |             |                 |                  |                 |                    |                    |        |
|-----------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)             | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3760.0                      | -55.13     | -13         | -42.13          | -60.02           | 3.63            | 8.52               | Horizontal         | Pass   |
| 5640.0                      | -61.71     | -13         | -48.71          | -67.41           | 4.75            | 10.45              | Horizontal         | Pass   |
| 7520.0                      | -59.93     | -13         | -46.93          | -66.75           | 4.94            | 11.76              | Horizontal         | Pass   |
| 3760.0                      | -56.96     | -13         | -43.96          | -61.85           | 3.63            | 8.52               | Vertical           | Pass   |
| 5640.0                      | -61.48     | -13         | -48.48          | -67.18           | 4.75            | 10.45              | Vertical           | Pass   |
| 7520.0                      | -59.96     | -13         | -46.96          | -66.78           | 4.94            | 11.76              | Vertical           | Pass   |

| GSM1900 ANT4-High channel |            |             |                 |                  |                 |                    |                    |        |
|---------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)           | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3819.6                    | -57.47     | -13         | -44.47          | -62.39           | 3.68            | 8.6                | Horizontal         | Pass   |
| 5729.4                    | -61.26     | -13         | -48.26          | -66.95           | 4.76            | 10.45              | Horizontal         | Pass   |
| 7639.2                    | -59.45     | -13         | -46.45          | -66.4            | 4.95            | 11.9               | Horizontal         | Pass   |
| 3819.6                    | -53.85     | -13         | -40.85          | -58.77           | 3.68            | 8.6                | Vertical           | Pass   |
| 5729.4                    | -61.94     | -13         | -48.94          | -67.63           | 4.76            | 10.45              | Vertical           | Pass   |
| 7639.2                    | -59.58     | -13         | -46.58          | -66.53           | 4.95            | 11.9               | Vertical           | Pass   |