

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 B13\_5MHz\_ERP

| Band: 13 / Bandwidth: 5MHz / NTNV |                 |               |        |                       |            |           |         |         |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                   |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                              | 779.5           | 1             | 0      | 24.32                 | -5.83      | 16.34     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 24.45                 | -5.83      | 16.47     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 23.31                 | -5.83      | 15.33     | <=34.77 | Pass    |
|                                   | 782             | 1             | 0      | 24.28                 | -5.83      | 16.30     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 24.38                 | -5.83      | 16.40     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 23.33                 | -5.83      | 15.35     | <=34.77 | Pass    |
|                                   | 784.5           | 1             | 0      | 24.38                 | -5.83      | 16.40     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 24.45                 | -5.83      | 16.47     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 23.33                 | -5.83      | 15.35     | <=34.77 | Pass    |
| 16QAM                             | 779.5           | 1             | 0      | 23.10                 | -5.83      | 15.12     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 23.19                 | -5.83      | 15.21     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 22.33                 | -5.83      | 14.35     | <=34.77 | Pass    |
|                                   | 782             | 1             | 0      | 23.50                 | -5.83      | 15.52     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 23.54                 | -5.83      | 15.56     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 22.32                 | -5.83      | 14.34     | <=34.77 | Pass    |
|                                   | 784.5           | 1             | 0      | 23.37                 | -5.83      | 15.39     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 23.43                 | -5.83      | 15.45     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 22.34                 | -5.83      | 14.36     | <=34.77 | Pass    |
| 64QAM                             | 779.5           | 1             | 0      | 22.24                 | -5.83      | 14.26     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 22.32                 | -5.83      | 14.34     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 21.31                 | -5.83      | 13.33     | <=34.77 | Pass    |
|                                   | 782             | 1             | 0      | 22.50                 | -5.83      | 14.52     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 22.55                 | -5.83      | 14.57     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 21.31                 | -5.83      | 13.33     | <=34.77 | Pass    |
|                                   | 784.5           | 1             | 0      | 22.31                 | -5.83      | 14.33     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 22.32                 | -5.83      | 14.34     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 21.34                 | -5.83      | 13.36     | <=34.77 | Pass    |
| 256QAM                            | 779.5           | 1             | 0      | 18.95                 | -5.83      | 10.97     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 19.09                 | -5.83      | 11.11     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 19.36                 | -5.83      | 11.38     | <=34.77 | Pass    |
|                                   | 782             | 1             | 0      | 19.36                 | -5.83      | 11.38     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 19.40                 | -5.83      | 11.42     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 19.34                 | -5.83      | 11.36     | <=34.77 | Pass    |
|                                   | 784.5           | 1             | 0      | 19.04                 | -5.83      | 11.06     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 19.08                 | -5.83      | 11.10     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 19.34                 | -5.83      | 11.36     | <=34.77 | Pass    |

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.2 B13\_10MHz\_ERP

| Band: 13 / Bandwidth: 10MHz / NTNV |                 |               |        |                       |            |           |         |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                               | 782             | 1             | 0      | 24.32                 | -5.83      | 16.34     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 24.45                 | -5.83      | 16.47     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 23.24                 | -5.83      | 15.26     | <=34.77 | Pass    |
| 16QAM                              | 782             | 1             | 0      | 23.82                 | -5.83      | 15.84     | <=34.77 | Pass    |

|                                              |     |    |    |       |       |       |         |      |
|----------------------------------------------|-----|----|----|-------|-------|-------|---------|------|
|                                              |     |    | 49 | 23.85 | -5.83 | 15.87 | <=34.77 | Pass |
|                                              |     | 50 | 0  | 22.26 | -5.83 | 14.28 | <=34.77 | Pass |
| 64QAM                                        | 782 | 1  | 0  | 22.53 | -5.83 | 14.55 | <=34.77 | Pass |
|                                              |     |    | 49 | 22.63 | -5.83 | 14.65 | <=34.77 | Pass |
|                                              |     | 50 | 0  | 21.27 | -5.83 | 13.29 | <=34.77 | Pass |
| 256QAM                                       | 782 | 1  | 0  | 19.68 | -5.83 | 11.70 | <=34.77 | Pass |
|                                              |     |    | 49 | 19.80 | -5.83 | 11.82 | <=34.77 | Pass |
|                                              |     | 50 | 0  | 19.26 | -5.83 | 11.28 | <=34.77 | Pass |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 |     |    |    |       |       |       |         |      |

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B13\_10MHz

| Band: 13 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 782             | 50            | 0      | 20         | 3.7           | -3.076           | -0.0039               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.91          | -4.349           | -0.0056               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.3           | -3.276           | -0.0042               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.91          | -4.063           | -0.0052               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.91          | -0.858           | -0.0011               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.91          | -1.674           | -0.0021               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.91          | -3.176           | -0.0041               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.91          | 0.029            | 0.0000                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.91          | -0.558           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.91          | 0.186            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.91          | -0.930           | -0.0012               | -2.5 to 2.5 | Pass    |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 Band13\_OBW

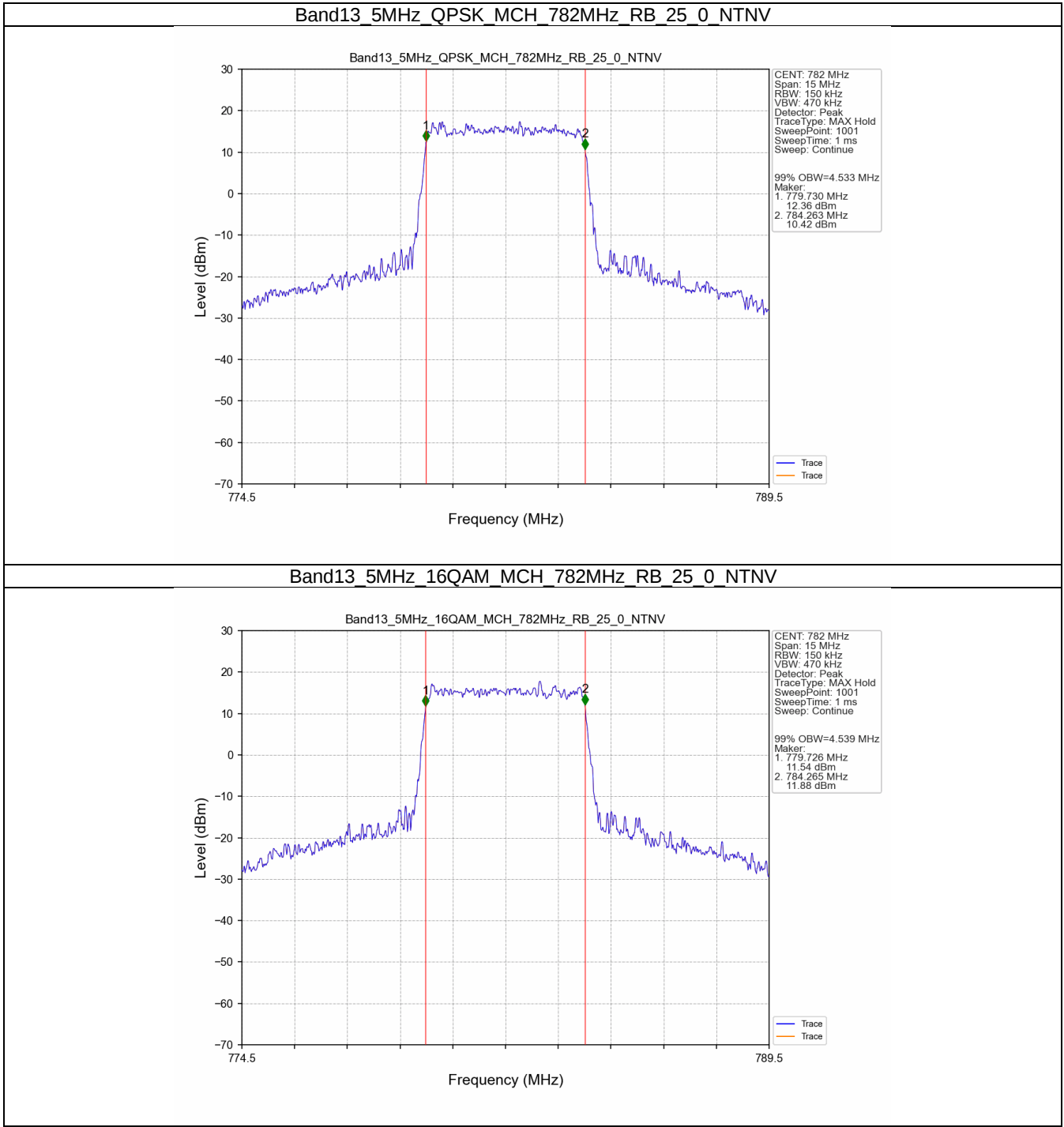
| Band: 13 / NTNV |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 5               | QPSK       | 782             | 25            | 0      | 4.533                        | /     | Pass    |
|                 | 16QAM      | 782             | 25            | 0      | 4.539                        | /     | Pass    |
| 10              | QPSK       | 782             | 50            | 0      | 9.029                        | /     | Pass    |
|                 | 16QAM      | 782             | 50            | 0      | 9.028                        | /     | Pass    |

##### 3.1.2 Band13\_XDB

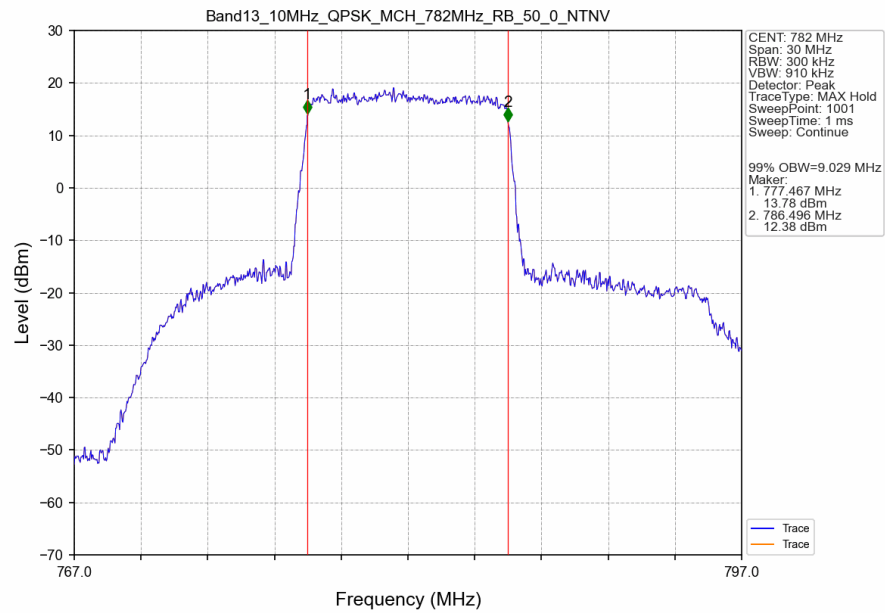
| Band: 13 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 5               | QPSK       | 782             | 25            | 0      | 5.054                | /     | Pass    |
|                 | 16QAM      | 782             | 25            | 0      | 5.019                | /     | Pass    |
| 10              | QPSK       | 782             | 50            | 0      | 10.045               | /     | Pass    |
|                 | 16QAM      | 782             | 50            | 0      | 10.260               | /     | Pass    |

3.2 Test Graph

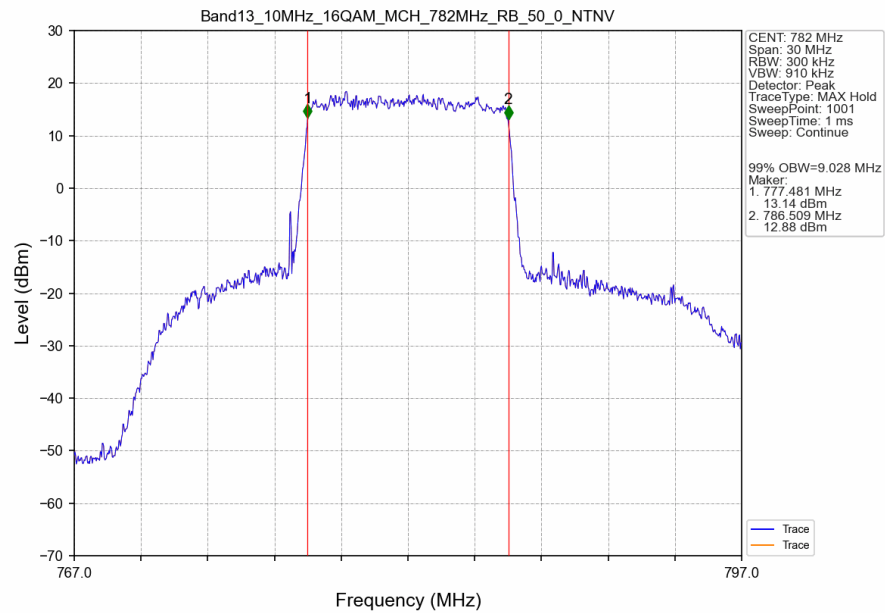
3.2.1 Band13\_OBW



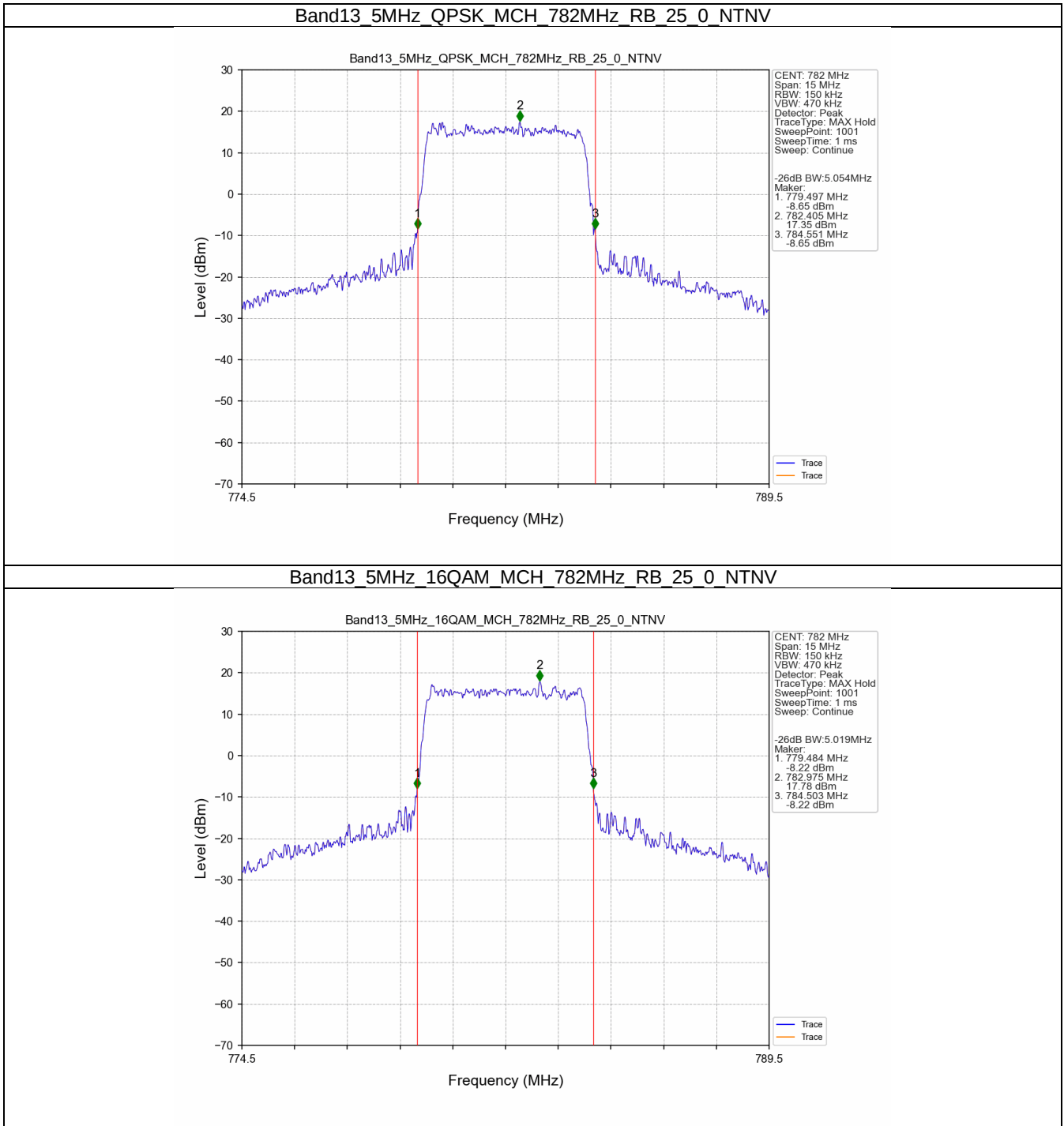
# Band13 10MHz QPSK MCH 782MHz RB 50 0 NTV



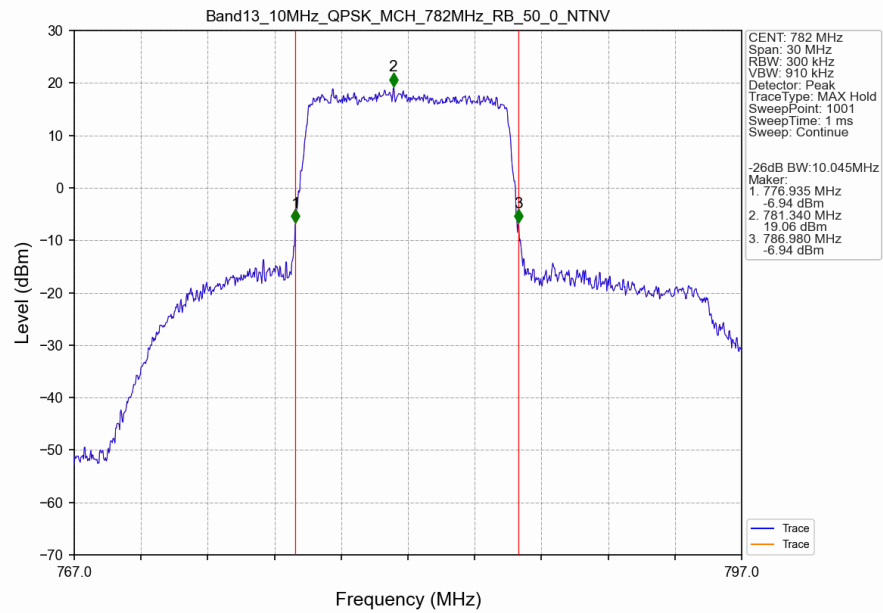
# Band13 10MHz 16QAM MCH 782MHz RB 50 0 NTV



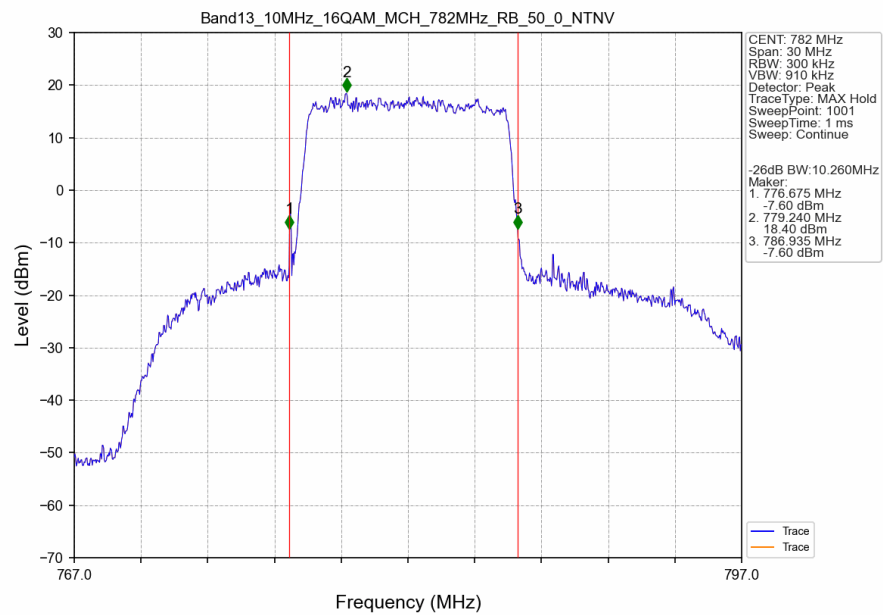
3.2.2 Band13\_XDB



# Band13 10MHz QPSK MCH 782MHz RB 50 0 NTV



# Band13 10MHz 16QAM MCH 782MHz RB 50 0 NTV



## 4. Peak-Average Ratio

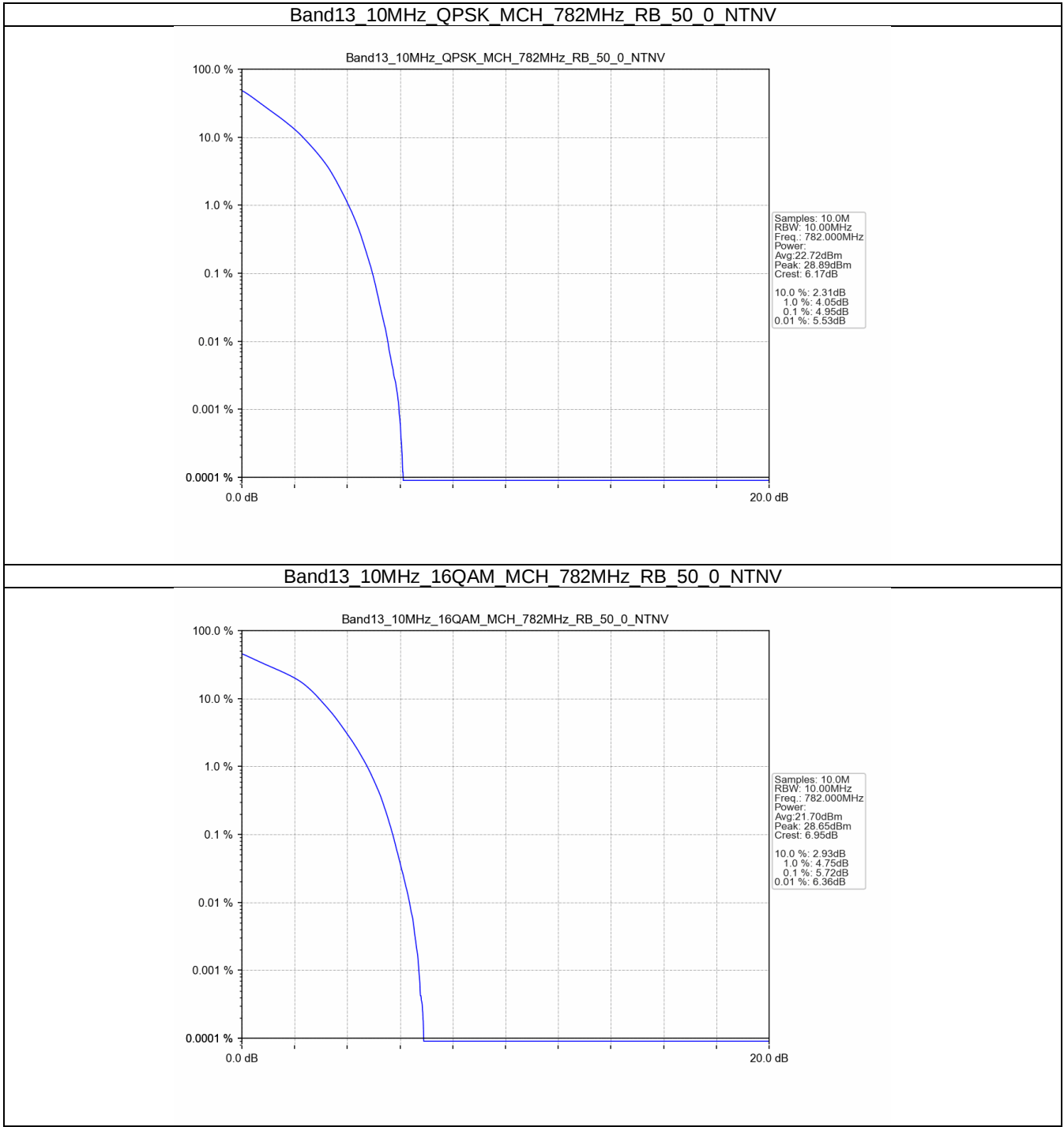
### 4.1 Test Result

#### 4.1.1 B13\_10MHz

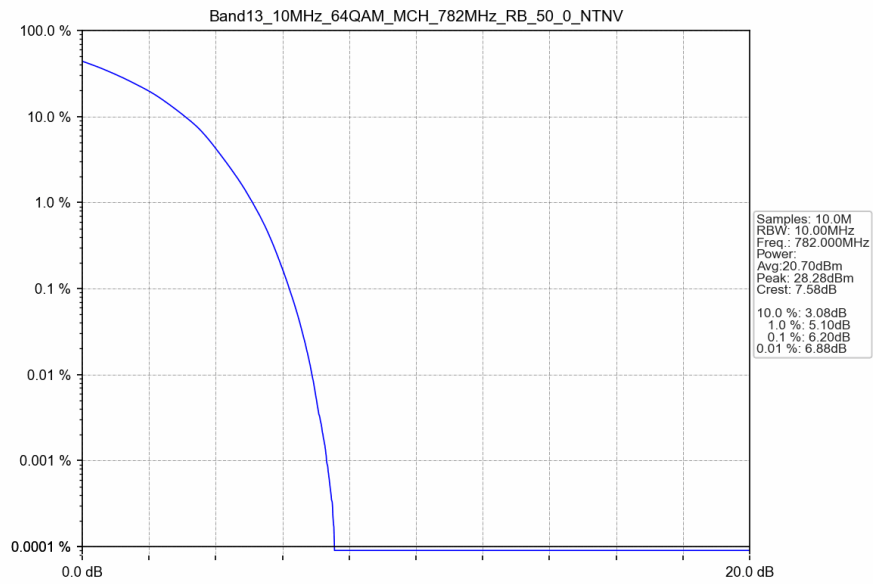
| Band: 13 / Bandwidth: 10MHz / NTNV |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 782             | 50            | 0      | 4.95                    | <=13  | Pass    |
| 16QAM                              | 782             | 50            | 0      | 5.72                    | <=13  | Pass    |
| 64QAM                              | 782             | 50            | 0      | 6.20                    | <=13  | Pass    |
| 256QAM                             | 782             | 50            | 0      | 6.79                    | <=13  | Pass    |

# 4.2 Test Graph

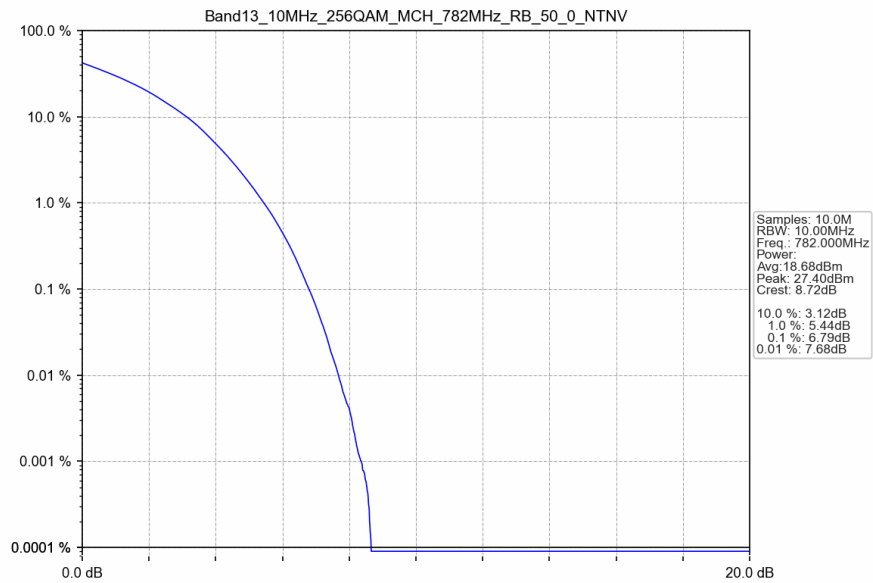
## 4.2.1 B13\_10MHz



# Band13 10MHz 64QAM MCH 782MHz RB 50 0 NTNV



# Band13 10MHz 256QAM MCH 782MHz RB 50 0 NTNV



## 5. Spurious Emission

### 5.1 Test Result

#### 5.1.1 B13\_5MHz

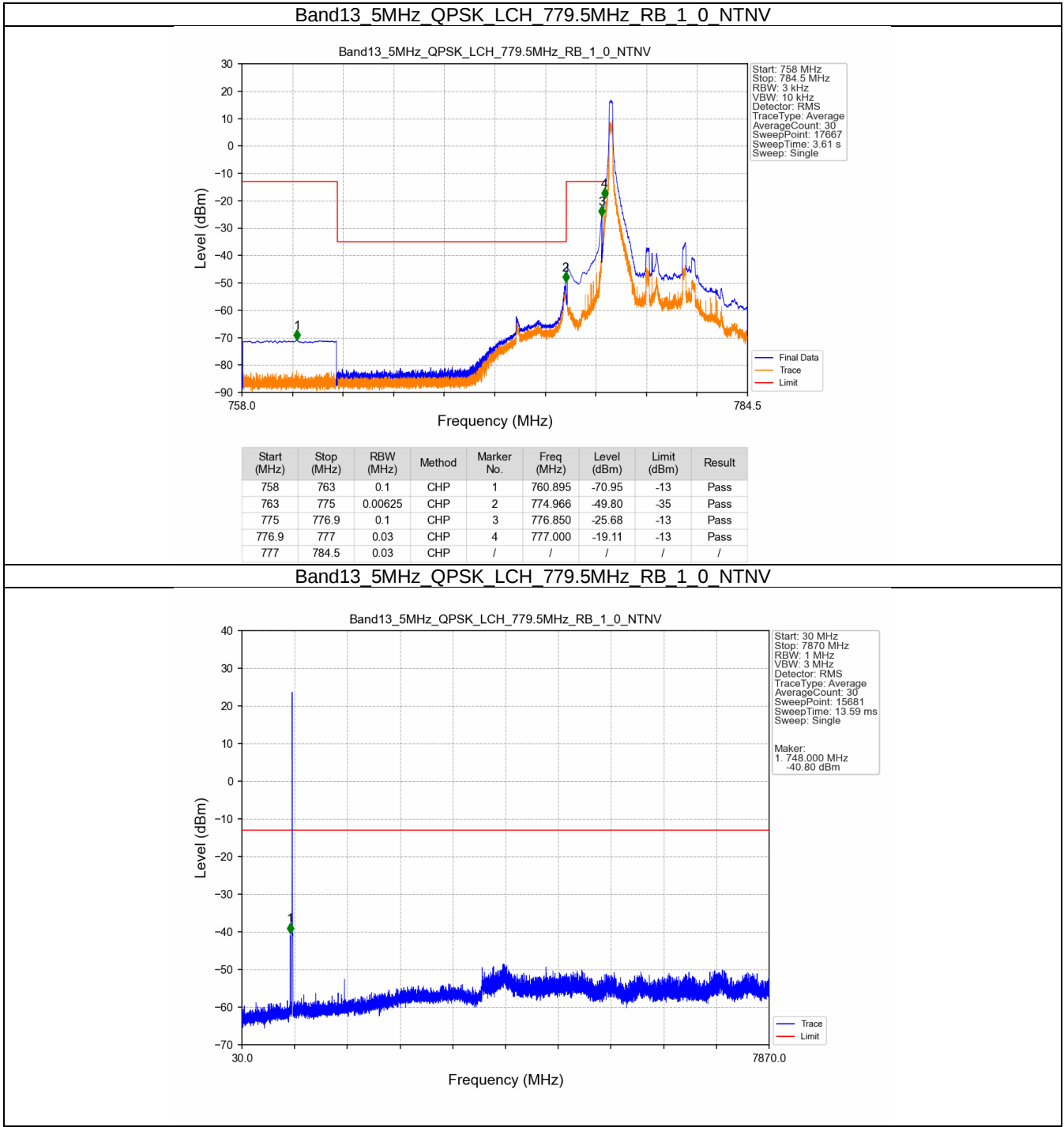
| Band: 13 / Bandwidth: 5MHz / NTV |                 |               |        |                     |       |         |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                  |                 | Size          | Offset | Result              | Limit |         |
| QPSK                             | 779.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
|                                  | 782             | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  | 784.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 24     | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |

#### 5.1.2 B13\_10MHz

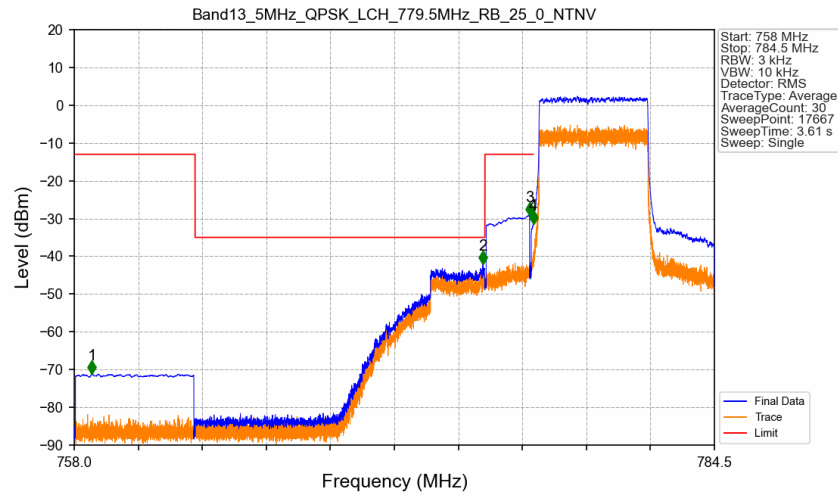
| Band: 13 / Bandwidth: 10MHz / NTNV |                 |               |        |                     |       |         |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                    |                 | Size          | Offset | Result              | Limit |         |
| QPSK                               | 782             | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    |                 | 50            | 0      | Refer To Test Graph |       | Pass    |
|                                    | 782             | 1             | 49     | Refer To Test Graph |       | Pass    |
|                                    |                 | 50            | 0      | Refer To Test Graph |       | Pass    |

5.2 Test Graph

5.2.1 B13\_5MHz

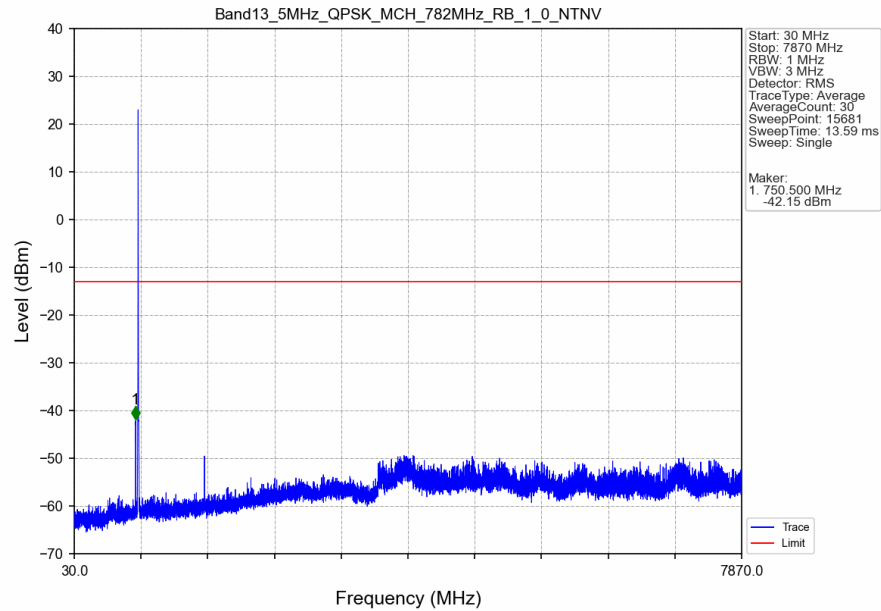


# Band13 5MHz QPSK LCH 779.5MHz RB 25 0 NTV

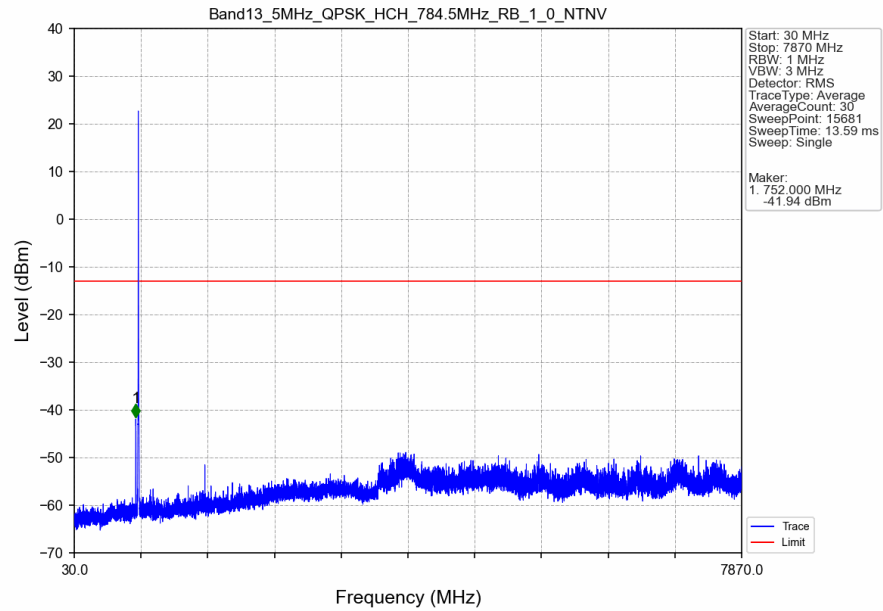


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 758         | 763        | 0.1       | CHP    | 1          | 758.726    | -71.18      | -13         | Pass   |
| 763         | 775        | 0.00625   | CHP    | 2          | 774.916    | -42.09      | -35         | Pass   |
| 775         | 776.9      | 0.1       | CHP    | 3          | 776.850    | -29.18      | -13         | Pass   |
| 776.9       | 777        | 0.03      | CHP    | 4          | 777.000    | -31.37      | -13         | Pass   |
| 777         | 784.5      | 0.03      | CHP    | /          | /          | /           | /           | /      |

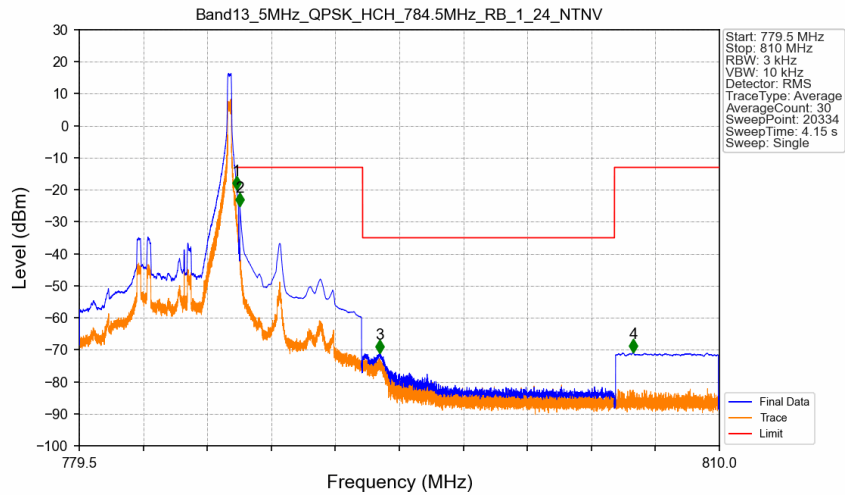
# Band13 5MHz QPSK MCH 782MHz RB 1 0 NTV



Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTN

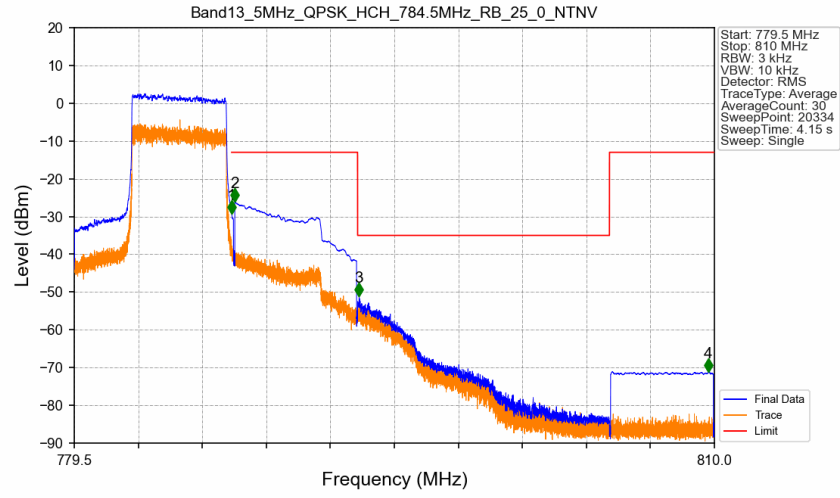


Band13 5MHz QPSK HCH 784.5MHz RB 1 24 NTN



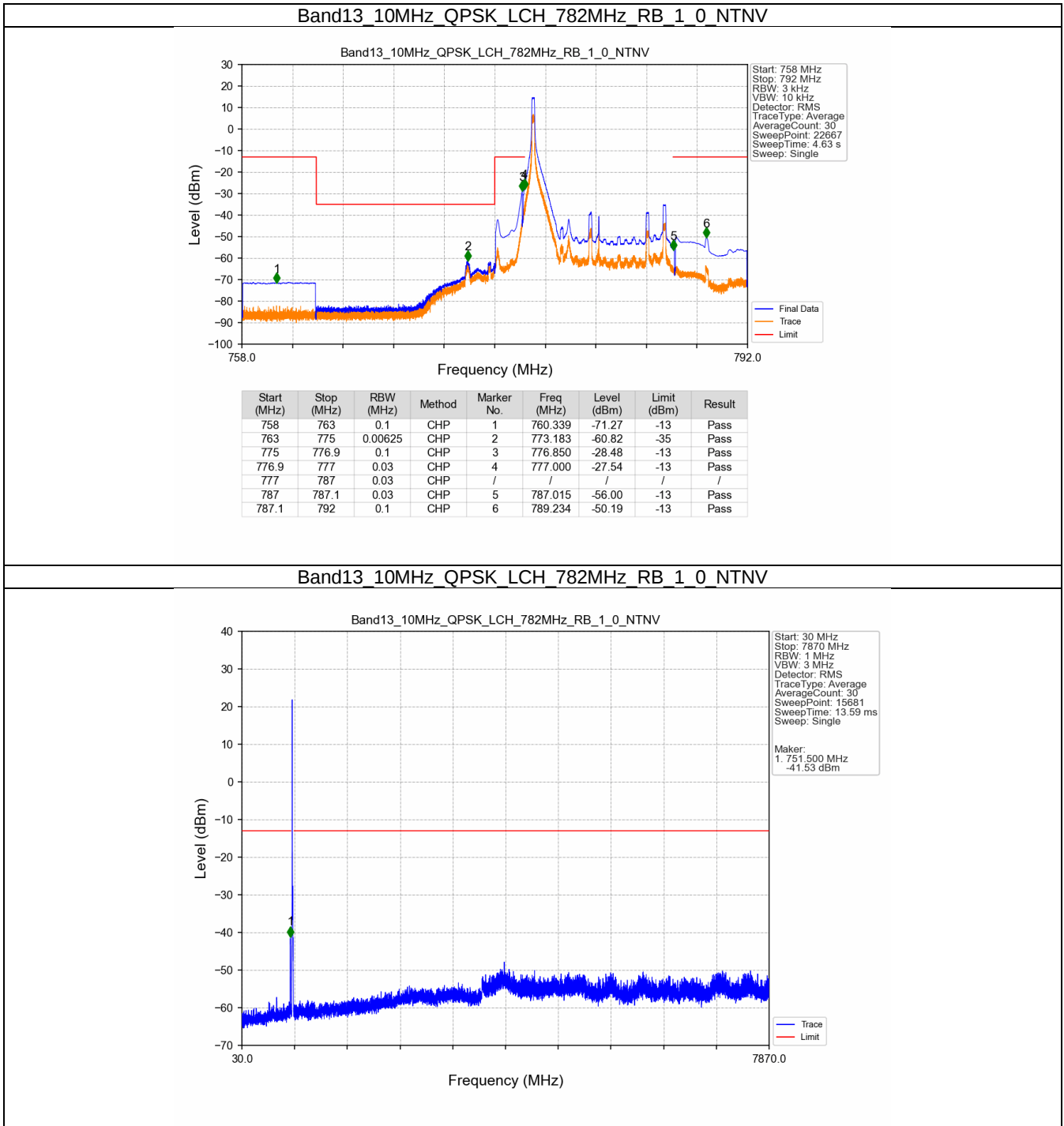
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 779.5       | 787        | 0.03      | CHP    | /          | /          | /           | /           | /      |
| 787         | 787.1      | 0.03      | CHP    | 1          | 787.000    | -19.84      | -13         | Pass   |
| 787.1       | 793        | 0.1       | CHP    | 2          | 787.150    | -25.19      | -13         | Pass   |
| 793         | 805        | 0.00625   | CHP    | 3          | 793.797    | -71.14      | -35         | Pass   |
| 805         | 810        | 0.1       | CHP    | 4          | 805.905    | -70.84      | -13         | Pass   |

# Band13 5MHz QPSK HCH 784.5MHz RB 25 0 NTN

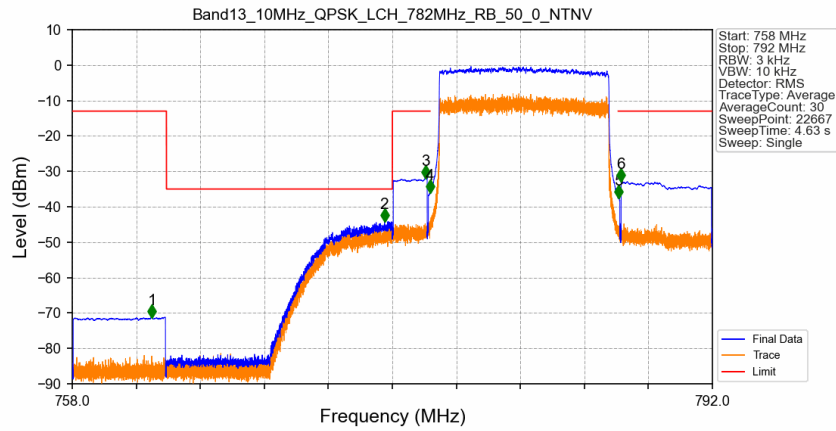


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 779.5       | 787        | 0.03      | CHP    | /          | /          | /           | /           | /      |
| 787         | 787.1      | 0.03      | CHP    | 1          | 787.000    | -29.21      | -13         | Pass   |
| 787.1       | 793        | 0.1       | CHP    | 2          | 787.150    | -26.11      | -13         | Pass   |
| 793         | 805        | 0.00625   | CHP    | 3          | 793.072    | -51.16      | -35         | Pass   |
| 805         | 810        | 0.1       | CHP    | 4          | 809.710    | -71.08      | -13         | Pass   |

5.2.2 B13\_10MHz

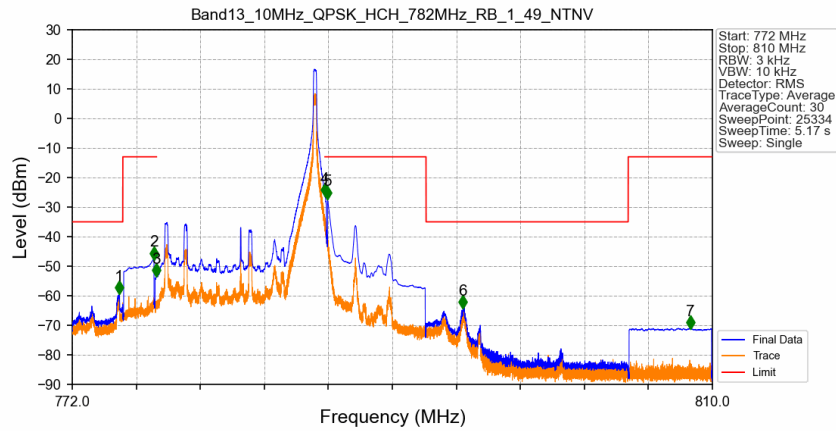


### Band13 10MHz QPSK LCH 782MHz RB 50 0 NTNV



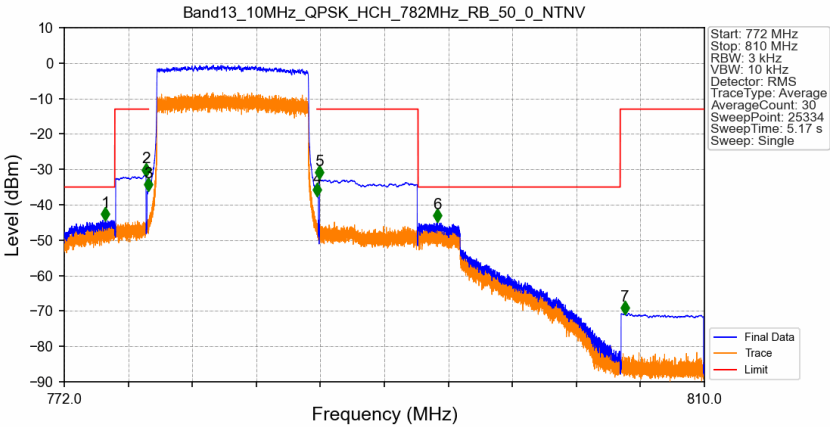
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 758         | 763        | 0.1       | CHP    | 1          | 762.223    | -71.12      | -13         | Pass   |
| 763         | 775        | 0.00625   | CHP    | 2          | 774.584    | -44.03      | -35         | Pass   |
| 775         | 776.9      | 0.1       | CHP    | 3          | 776.776    | -31.84      | -13         | Pass   |
| 776.9       | 777        | 0.03      | CHP    | 4          | 776.998    | -35.89      | -13         | Pass   |
| 777         | 787        | 0.03      | CHP    | /          | /          | /           | /           | /      |
| 787         | 787.1      | 0.03      | CHP    | 5          | 787.017    | -37.41      | -13         | Pass   |
| 787.1       | 792        | 0.1       | CHP    | 6          | 787.153    | -32.60      | -13         | Pass   |

### Band13 10MHz QPSK HCH 782MHz RB 1 49 NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 772         | 775        | 0.00625   | CHP    | 1          | 774.777    | -59.17      | -35         | Pass   |
| 775         | 776.9      | 0.1       | CHP    | 2          | 776.847    | -47.45      | -13         | Pass   |
| 776.9       | 777        | 0.03      | CHP    | 3          | 776.985    | -53.25      | -13         | Pass   |
| 777         | 787        | 0.03      | CHP    | /          | /          | /           | /           | /      |
| 787         | 787.1      | 0.03      | CHP    | 4          | 787.000    | -26.09      | -13         | Pass   |
| 787.1       | 793        | 0.1       | CHP    | 5          | 787.150    | -26.97      | -13         | Pass   |
| 793         | 805        | 0.00625   | CHP    | 6          | 795.192    | -63.90      | -35         | Pass   |
| 805         | 810        | 0.1       | CHP    | 7          | 808.699    | -70.91      | -13         | Pass   |

Band13 10MHz QPSK HCH 782MHz RB 50 0 NTN



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 772         | 775        | 0.00625   | CHP    | 1          | 774.444    | -44.22      | -35         | Pass   |
| 775         | 776.9      | 0.1       | CHP    | 2          | 776.847    | -31.68      | -13         | Pass   |
| 776.9       | 777        | 0.03      | CHP    | 3          | 776.989    | -35.87      | -13         | Pass   |
| 777         | 787        | 0.03      | CHP    | /          | /          | /           | /           | /      |
| 787         | 787.1      | 0.03      | CHP    | 4          | 787.017    | -37.31      | -13         | Pass   |
| 787.1       | 793        | 0.1       | CHP    | 5          | 787.152    | -32.49      | -13         | Pass   |
| 793         | 805        | 0.00625   | CHP    | 6          | 794.140    | -44.61      | -35         | Pass   |
| 805         | 810        | 0.1       | CHP    | 7          | 805.276    | -70.72      | -13         | Pass   |

## 6. Field Strength of Spurious Radiation

| LTE Band 13 ANT31-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|----------------------------------------------------------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)                                                            | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1555.0                                                                     | -65.65     | -13         | -52.65          | -68.79           | 2.6             | 5.74               | Horizontal         | Pass   |
| 2332.5                                                                     | -64.95     | -13         | -51.95          | -67.41           | 2.96            | 5.42               | Horizontal         | Pass   |
| 3110.0                                                                     | -62.54     | -13         | -49.54          | -66.54           | 3.2             | 7.2                | Horizontal         | Pass   |
| 1555.0                                                                     | -65.57     | -13         | -52.57          | -68.71           | 2.6             | 5.74               | Vertical           | Pass   |
| 2332.5                                                                     | -64.83     | -13         | -51.83          | -67.29           | 2.96            | 5.42               | Vertical           | Pass   |
| 3110.0                                                                     | -62.96     | -13         | -49.96          | -66.96           | 3.2             | 7.2                | Vertical           | Pass   |

| LTE Band 13 ANT31-Low channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|------------------------------------------------------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)                                                        | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1554.5                                                                 | -66.41     | -13         | -53.41          | -69.55           | 2.6             | 5.74               | Horizontal         | Pass   |
| 2331.75                                                                | -65.43     | -13         | -52.43          | -67.89           | 2.96            | 5.42               | Horizontal         | Pass   |
| 3109.0                                                                 | -62.58     | -13         | -49.58          | -66.57           | 3.2             | 7.19               | Horizontal         | Pass   |
| 1554.5                                                                 | -65.13     | -13         | -52.13          | -68.27           | 2.6             | 5.74               | Vertical           | Pass   |
| 2331.75                                                                | -65.14     | -13         | -52.14          | -67.6            | 2.96            | 5.42               | Vertical           | Pass   |
| 3109.0                                                                 | -62.05     | -13         | -49.05          | -66.04           | 3.2             | 7.19               | Vertical           | Pass   |

| LTE Band 13 ANT31-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0 |            |             |                 |                  |                 |                    |                    |        |
|---------------------------------------------------------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)                                                           | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1559.5                                                                    | -65.18     | -40         | -25.18          | -68.31           | 2.6             | 5.73               | Horizontal         | Pass   |
| 2339.25                                                                   | -64.82     | -13         | -51.82          | -67.29           | 2.96            | 5.43               | Horizontal         | Pass   |
| 3119.0                                                                    | -62.71     | -13         | -49.71          | -66.72           | 3.21            | 7.22               | Horizontal         | Pass   |
| 1559.5                                                                    | -65.92     | -40         | -25.92          | -69.05           | 2.6             | 5.73               | Vertical           | Pass   |
| 2339.25                                                                   | -65.65     | -13         | -52.65          | -68.12           | 2.96            | 5.43               | Vertical           | Pass   |
| 3119.0                                                                    | -62.29     | -13         | -49.29          | -66.3            | 3.21            | 7.22               | Vertical           | Pass   |

| LTE Band 13 ANT31-High channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0 |               |                |                       |                        |                       |                          |                       |        |
|-------------------------------------------------------------------------|---------------|----------------|-----------------------|------------------------|-----------------------|--------------------------|-----------------------|--------|
| Frequency<br>(MHz)                                                      | EIRP<br>(dBm) | Limit<br>(dBm) | Over<br>Limit<br>(dB) | S.G.<br>Power<br>(dBm) | Cable<br>Loss<br>(dB) | Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) | Result |
| 1564.5                                                                  | -66.13        | -40            | -26.13                | -69.25                 | 2.6                   | 5.72                     | Horizontal            | Pass   |
| 2346.75                                                                 | -64.87        | -13            | -51.87                | -67.35                 | 2.97                  | 5.45                     | Horizontal            | Pass   |
| 3129.0                                                                  | -62.06        | -13            | -49.06                | -66.09                 | 3.21                  | 7.24                     | Horizontal            | Pass   |
| 1564.5                                                                  | -66.1         | -40            | -26.1                 | -69.22                 | 2.6                   | 5.72                     | Vertical              | Pass   |
| 2346.75                                                                 | -64.41        | -13            | -51.41                | -66.89                 | 2.97                  | 5.45                     | Vertical              | Pass   |
| 3129.0                                                                  | -61.09        | -13            | -48.09                | -65.12                 | 3.21                  | 7.24                     | Vertical              | Pass   |