

# 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      | 21.68                 | -2.65      | 16.88     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 21.42                 | -2.65      | 16.62     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 21.59                 | -2.65      | 16.79     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 20.53                 | -2.65      | 15.73     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 20.71                 | -2.65      | 15.91     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 20.64                 | -2.65      | 15.84     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 20.67                 | -2.65      | 15.87     | <=34.77 | Pass    |
|                                   | 782             | 1             | 0      | 21.77                 | -2.65      | 16.97     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 21.68                 | -2.65      | 16.88     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 21.68                 | -2.65      | 16.88     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 20.84                 | -2.65      | 16.04     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 20.75                 | -2.65      | 15.95     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 20.78                 | -2.65      | 15.98     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 20.86                 | -2.65      | 16.06     | <=34.77 | Pass    |
|                                   | 784.5           | 1             | 0      | 21.74                 | -2.65      | 16.94     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 21.70                 | -2.65      | 16.90     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 21.71                 | -2.65      | 16.91     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 20.82                 | -2.65      | 16.02     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 20.77                 | -2.65      | 15.97     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 20.77                 | -2.65      | 15.97     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 20.83                 | -2.65      | 16.03     | <=34.77 | Pass    |
| 16QAM                             | 779.5           | 1             | 0      | 20.77                 | -2.65      | 15.97     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 20.74                 | -2.65      | 15.94     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 20.87                 | -2.65      | 16.07     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 19.52                 | -2.65      | 14.72     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 19.69                 | -2.65      | 14.89     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 19.69                 | -2.65      | 14.89     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 19.69                 | -2.65      | 14.89     | <=34.77 | Pass    |
|                                   | 782             | 1             | 0      | 20.65                 | -2.65      | 15.85     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 20.64                 | -2.65      | 15.84     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 21.17                 | -2.65      | 16.37     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 19.88                 | -2.65      | 15.08     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 19.80                 | -2.65      | 15.00     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 19.82                 | -2.65      | 15.02     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 19.78                 | -2.65      | 14.98     | <=34.77 | Pass    |
|                                   | 784.5           | 1             | 0      | 21.17                 | -2.65      | 16.37     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 20.87                 | -2.65      | 16.07     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 20.96                 | -2.65      | 16.16     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 19.80                 | -2.65      | 15.00     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 19.78                 | -2.65      | 14.98     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 19.82                 | -2.65      | 15.02     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 19.77                 | -2.65      | 14.97     | <=34.77 | Pass    |
| 64QAM                             | 779.5           | 1             | 0      | 19.94                 | -2.65      | 15.14     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 19.73                 | -2.65      | 14.93     | <=34.77 | Pass    |
|                                   |                 |               | 24     | 19.95                 | -2.65      | 15.15     | <=34.77 | Pass    |
|                                   |                 | 12            | 0      | 18.60                 | -2.65      | 13.80     | <=34.77 | Pass    |
|                                   |                 |               | 6      | 18.70                 | -2.65      | 13.90     | <=34.77 | Pass    |
|                                   |                 |               | 13     | 18.69                 | -2.65      | 13.89     | <=34.77 | Pass    |
|                                   |                 | 25            | 0      | 18.63                 | -2.65      | 13.83     | <=34.77 | Pass    |

|                                              |       |       |       |       |       |         |         |         |      |
|----------------------------------------------|-------|-------|-------|-------|-------|---------|---------|---------|------|
|                                              | 782   | 1     | 0     | 19.37 | -2.65 | 14.57   | <=34.77 | Pass    |      |
|                                              |       |       | 13    | 19.76 | -2.65 | 14.96   | <=34.77 | Pass    |      |
|                                              |       |       | 24    | 19.85 | -2.65 | 15.05   | <=34.77 | Pass    |      |
|                                              |       | 12    | 0     | 18.89 | -2.65 | 14.09   | <=34.77 | Pass    |      |
|                                              |       |       | 6     | 18.81 | -2.65 | 14.01   | <=34.77 | Pass    |      |
|                                              |       |       | 13    | 18.82 | -2.65 | 14.02   | <=34.77 | Pass    |      |
|                                              |       | 25    | 0     | 18.81 | -2.65 | 14.01   | <=34.77 | Pass    |      |
|                                              |       | 784.5 | 1     | 0     | 19.96 | -2.65   | 15.16   | <=34.77 | Pass |
|                                              |       |       |       | 13    | 19.82 | -2.65   | 15.02   | <=34.77 | Pass |
|                                              | 24    |       |       | 19.85 | -2.65 | 15.05   | <=34.77 | Pass    |      |
|                                              | 12    |       | 0     | 18.83 | -2.65 | 14.03   | <=34.77 | Pass    |      |
|                                              |       |       | 6     | 18.75 | -2.65 | 13.95   | <=34.77 | Pass    |      |
|                                              |       |       | 13    | 18.81 | -2.65 | 14.01   | <=34.77 | Pass    |      |
|                                              | 25    | 0     | 18.79 | -2.65 | 13.99 | <=34.77 | Pass    |         |      |
| 256QAM                                       | 779.5 | 1     | 0     | 16.66 | -2.65 | 11.86   | <=34.77 | Pass    |      |
|                                              |       |       | 13    | 16.78 | -2.65 | 11.98   | <=34.77 | Pass    |      |
|                                              |       |       | 24    | 16.70 | -2.65 | 11.90   | <=34.77 | Pass    |      |
|                                              |       | 12    | 0     | 16.51 | -2.65 | 11.71   | <=34.77 | Pass    |      |
|                                              |       |       | 6     | 16.65 | -2.65 | 11.85   | <=34.77 | Pass    |      |
|                                              |       |       | 13    | 16.68 | -2.65 | 11.88   | <=34.77 | Pass    |      |
|                                              |       | 25    | 0     | 16.63 | -2.65 | 11.83   | <=34.77 | Pass    |      |
|                                              | 782   | 1     | 0     | 16.61 | -2.65 | 11.81   | <=34.77 | Pass    |      |
|                                              |       |       | 13    | 16.72 | -2.65 | 11.92   | <=34.77 | Pass    |      |
|                                              |       |       | 24    | 16.83 | -2.65 | 12.03   | <=34.77 | Pass    |      |
|                                              |       | 12    | 0     | 16.81 | -2.65 | 12.01   | <=34.77 | Pass    |      |
|                                              |       |       | 6     | 16.72 | -2.65 | 11.92   | <=34.77 | Pass    |      |
|                                              |       |       | 13    | 16.75 | -2.65 | 11.95   | <=34.77 | Pass    |      |
|                                              |       | 25    | 0     | 16.80 | -2.65 | 12.00   | <=34.77 | Pass    |      |
|                                              | 784.5 | 1     | 0     | 16.84 | -2.65 | 12.04   | <=34.77 | Pass    |      |
|                                              |       |       | 13    | 16.79 | -2.65 | 11.99   | <=34.77 | Pass    |      |
|                                              |       |       | 24    | 16.79 | -2.65 | 11.99   | <=34.77 | Pass    |      |
|                                              |       | 12    | 0     | 16.73 | -2.65 | 11.93   | <=34.77 | Pass    |      |
|                                              |       |       | 6     | 16.72 | -2.65 | 11.92   | <=34.77 | Pass    |      |
|                                              |       |       | 13    | 16.79 | -2.65 | 11.99   | <=34.77 | Pass    |      |
|                                              |       | 25    | 0     | 16.72 | -2.65 | 11.92   | <=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      | 21.68                 | -2.65      | 16.88     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 21.71                 | -2.65      | 16.91     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 21.68                 | -2.65      | 16.88     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 20.68                 | -2.65      | 15.88     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 20.77                 | -2.65      | 15.97     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 20.82                 | -2.65      | 16.02     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 20.77                 | -2.65      | 15.97     | <=34.77 | Pass    |
| 16QAM                              | 782             | 1             | 0      | 21.10                 | -2.65      | 16.30     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 20.79                 | -2.65      | 15.99     | <=34.77 | Pass    |
|                                    |                 |               | 49     | 20.36                 | -2.65      | 15.56     | <=34.77 | Pass    |
|                                    |                 | 25            | 0      | 19.66                 | -2.65      | 14.86     | <=34.77 | Pass    |
|                                    |                 |               | 13     | 19.79                 | -2.65      | 14.99     | <=34.77 | Pass    |
|                                    |                 |               | 25     | 19.63                 | -2.65      | 14.83     | <=34.77 | Pass    |
|                                    |                 | 50            | 0      | 19.79                 | -2.65      | 14.99     | <=34.77 | Pass    |
| 64QAM                              | 782             | 1             | 0      | 19.95                 | -2.65      | 15.15     | <=34.77 | Pass    |

|        |     |    |    |       |       |       |         |      |
|--------|-----|----|----|-------|-------|-------|---------|------|
|        |     | 25 | 25 | 19.83 | -2.65 | 15.03 | <=34.77 | Pass |
|        |     |    | 49 | 19.72 | -2.65 | 14.92 | <=34.77 | Pass |
|        |     |    | 0  | 18.61 | -2.65 | 13.81 | <=34.77 | Pass |
|        |     |    | 13 | 18.79 | -2.65 | 13.99 | <=34.77 | Pass |
|        |     |    | 25 | 18.77 | -2.65 | 13.97 | <=34.77 | Pass |
|        |     | 50 | 0  | 18.72 | -2.65 | 13.92 | <=34.77 | Pass |
|        |     |    | 0  | 16.78 | -2.65 | 11.98 | <=34.77 | Pass |
|        |     |    | 25 | 16.83 | -2.65 | 12.03 | <=34.77 | Pass |
|        |     |    | 49 | 16.80 | -2.65 | 12.00 | <=34.77 | Pass |
|        |     |    | 0  | 16.62 | -2.65 | 11.82 | <=34.77 | Pass |
| 256QAM | 782 | 1  | 13 | 16.76 | -2.65 | 11.96 | <=34.77 | Pass |
|        |     |    | 25 | 16.77 | -2.65 | 11.97 | <=34.77 | Pass |
|        |     |    | 0  | 16.74 | -2.65 | 11.94 | <=34.77 | Pass |
|        |     | 25 | 0  |       |       |       |         |      |
|        |     |    |    |       |       |       |         |      |
|        |     |    |    |       |       |       |         |      |

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         | 3.4           | 0.600            | 0.0008                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.8           | -2.800           | -0.0036               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.45          | -2.900           | -0.0037               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.8           | -2.700           | -0.0035               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.8           | -0.800           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.8           | -1.000           | -0.0013               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.8           | -0.700           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.8           | -5.100           | -0.0065               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.8           | 0.800            | 0.0010                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.8           | -3.900           | -0.0050               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.8           | -5.400           | -0.0069               | -2.5 to 2.5 | Pass    |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 Band13\_OBW

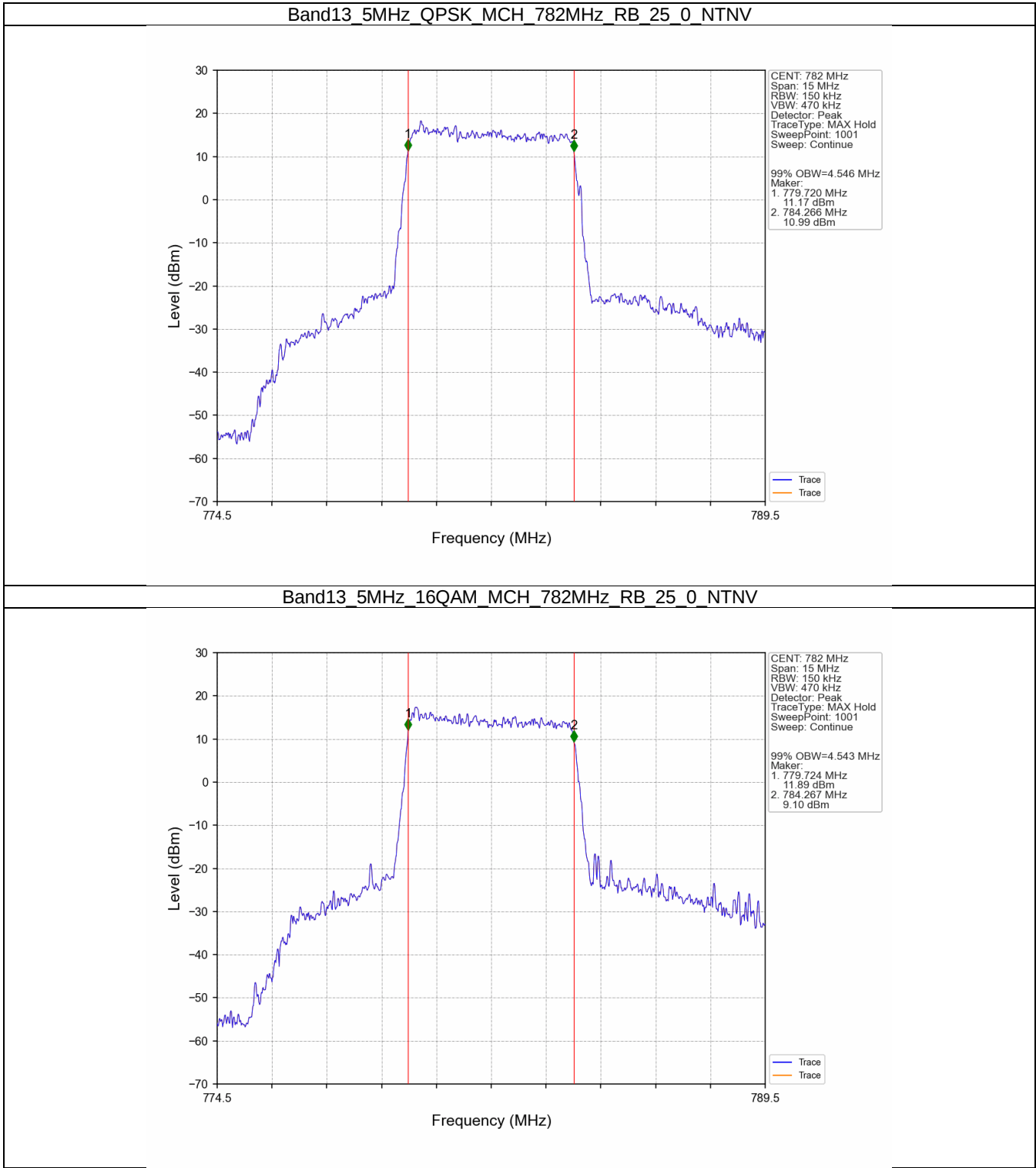
| Band: 13 / NTNV |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 5               | QPSK       | 782             | 25            | 0      | 4.546                        | /     | Pass    |
|                 | 16QAM      | 782             | 25            | 0      | 4.543                        | /     | Pass    |
| 10              | QPSK       | 782             | 50            | 0      | 9.038                        | /     | Pass    |
|                 | 16QAM      | 782             | 50            | 0      | 8.981                        | /     | Pass    |

##### 3.1.2 Band13\_XDB

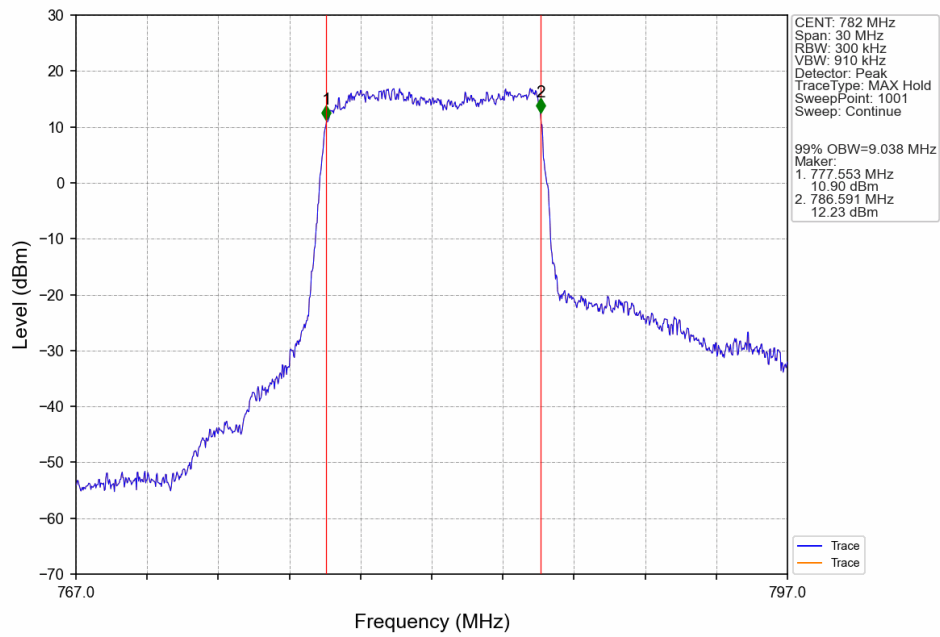
| Band: 13 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 5               | QPSK       | 782             | 25            | 0      | 5.042                | /     | Pass    |
|                 | 16QAM      | 782             | 25            | 0      | 5.001                | /     | Pass    |
| 10              | QPSK       | 782             | 50            | 0      | 9.894                | /     | Pass    |
|                 | 16QAM      | 782             | 50            | 0      | 9.838                | /     | Pass    |

### 3.2 Test Graph

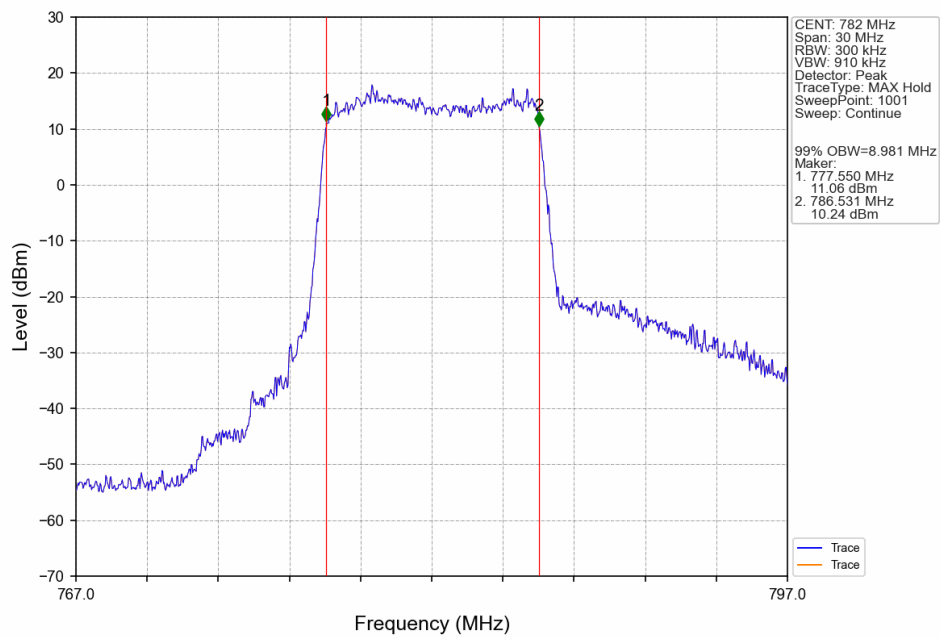
#### 3.2.1 Band13\_OBW



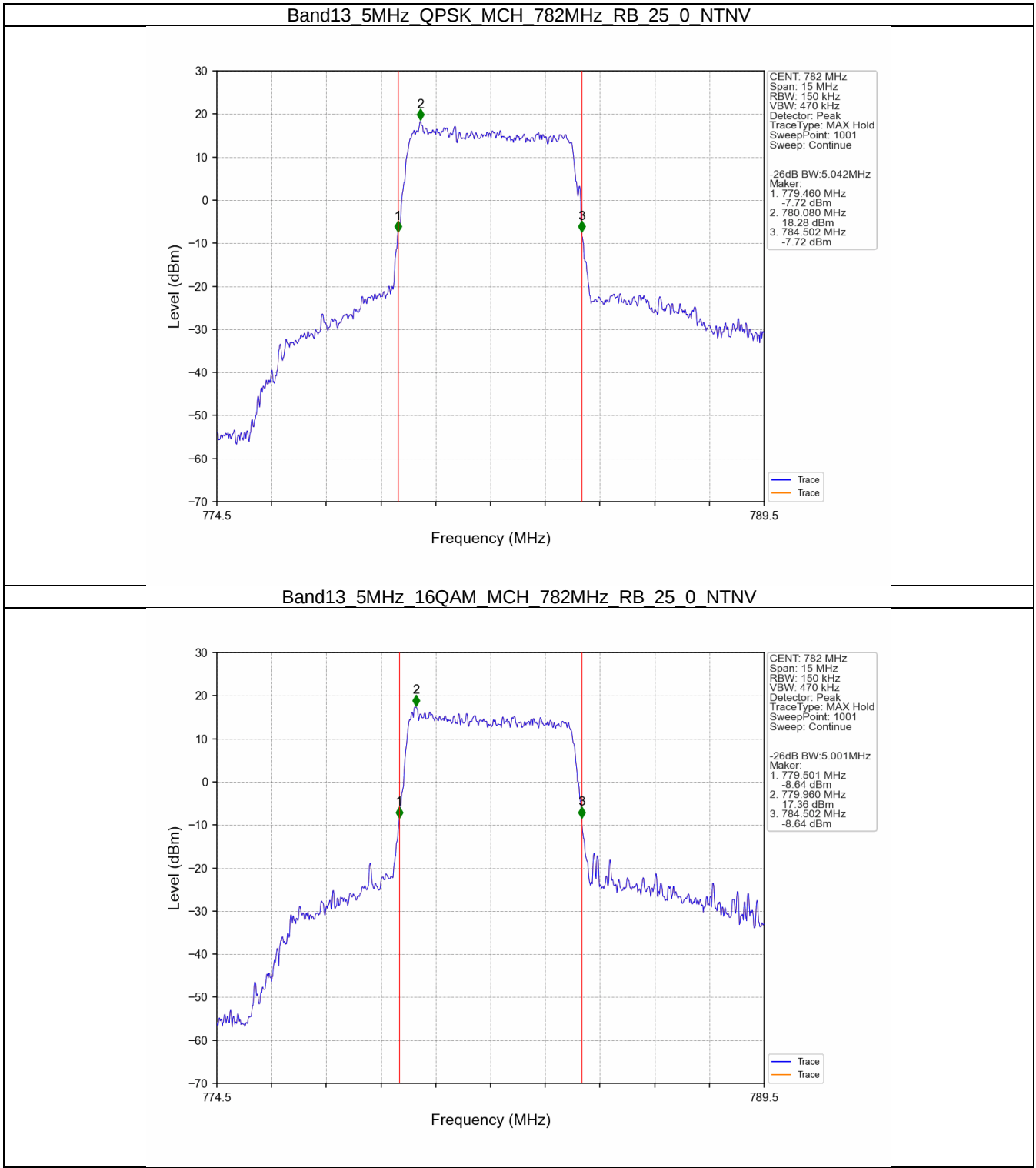
# Band13 10MHz QPSK MCH 782MHz RB 50 0 NTNV



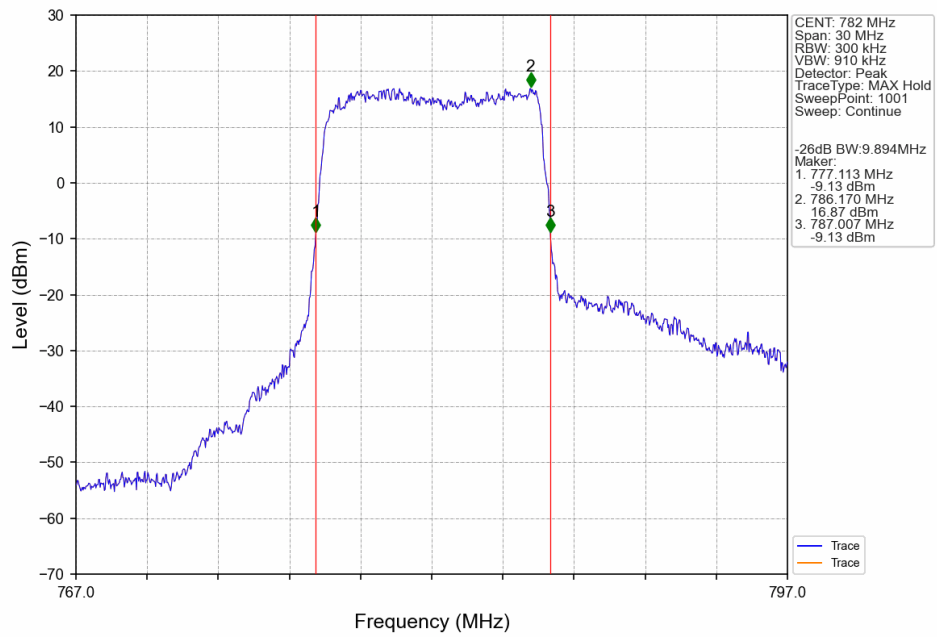
# Band13 10MHz 16QAM MCH 782MHz RB 50 0 NTNV



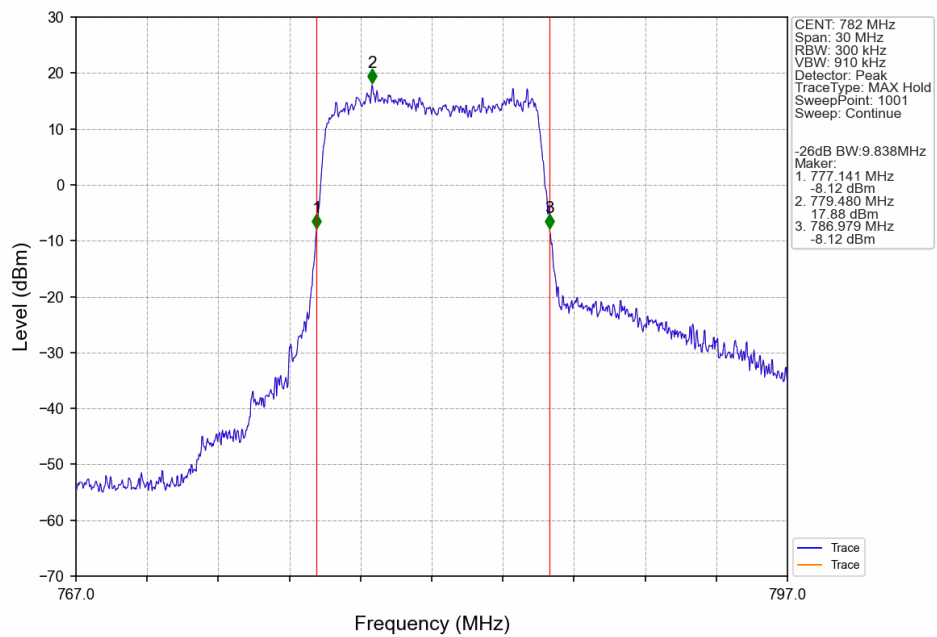
3.2.2 Band13\_XDB



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



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



## 4. Peak-Average Ratio

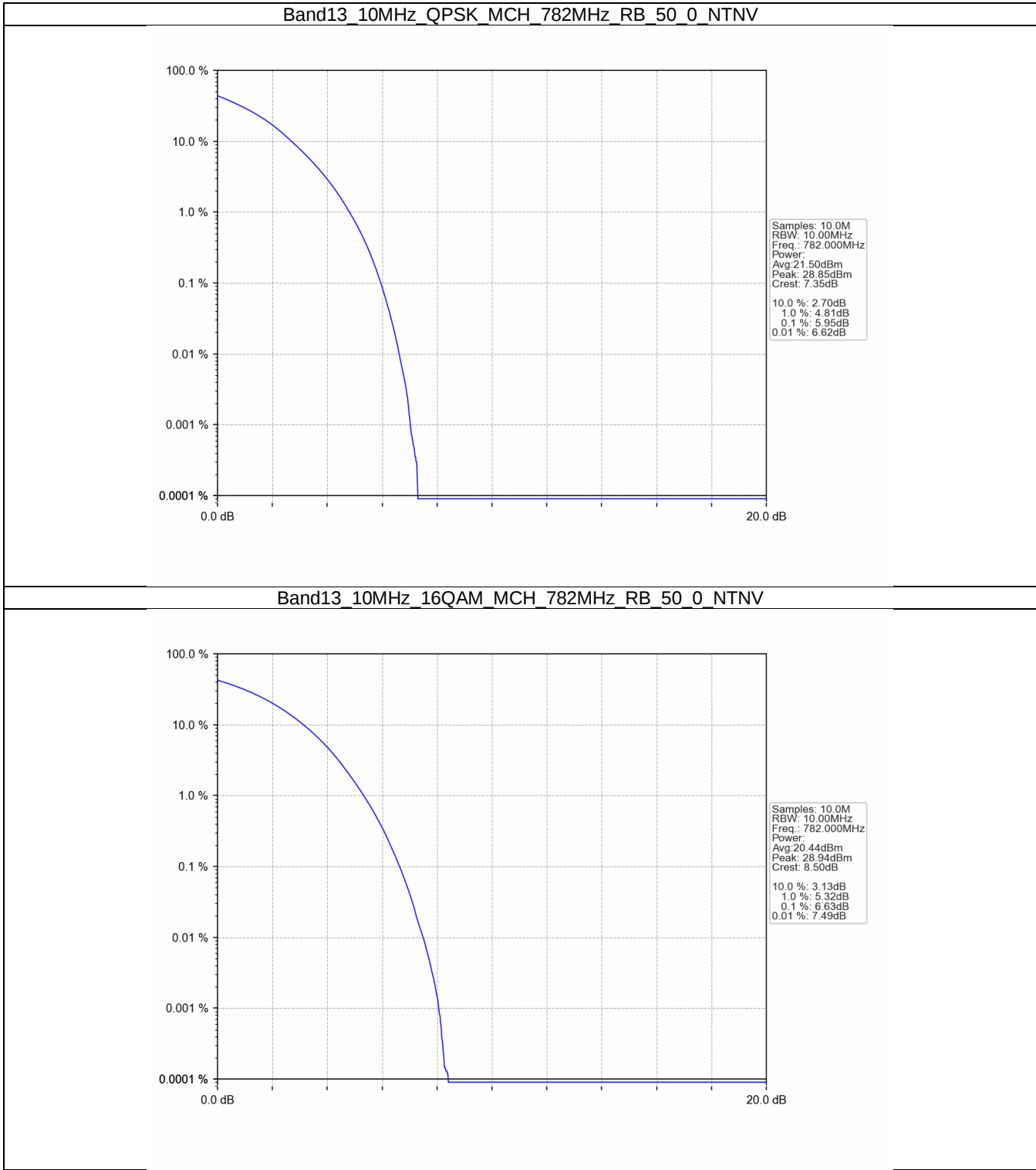
### 4.1 Test Result

#### 4.1.1 B13\_10MHz

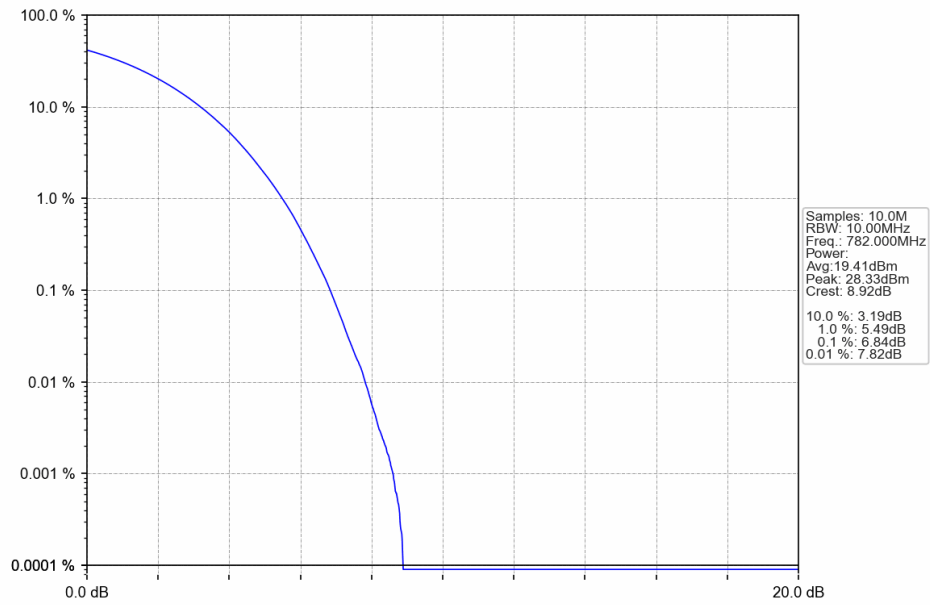
| Band: 13 / Bandwidth: 10MHz / NTNV |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 782             | 50            | 0      | 5.95                    | <=13  | Pass    |
| 16QAM                              | 782             | 50            | 0      | 6.63                    | <=13  | Pass    |
| 64QAM                              | 782             | 50            | 0      | 6.84                    | <=13  | Pass    |
| 256QAM                             | 782             | 50            | 0      | 6.90                    | <=13  | Pass    |

# 4.2 Test Graph

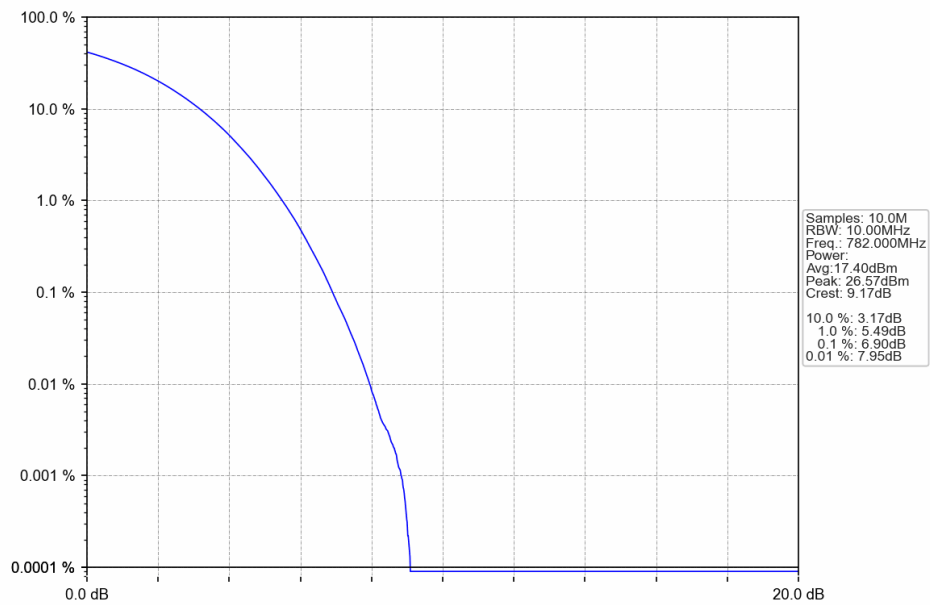
## 4.2.1 B13\_10MHz



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

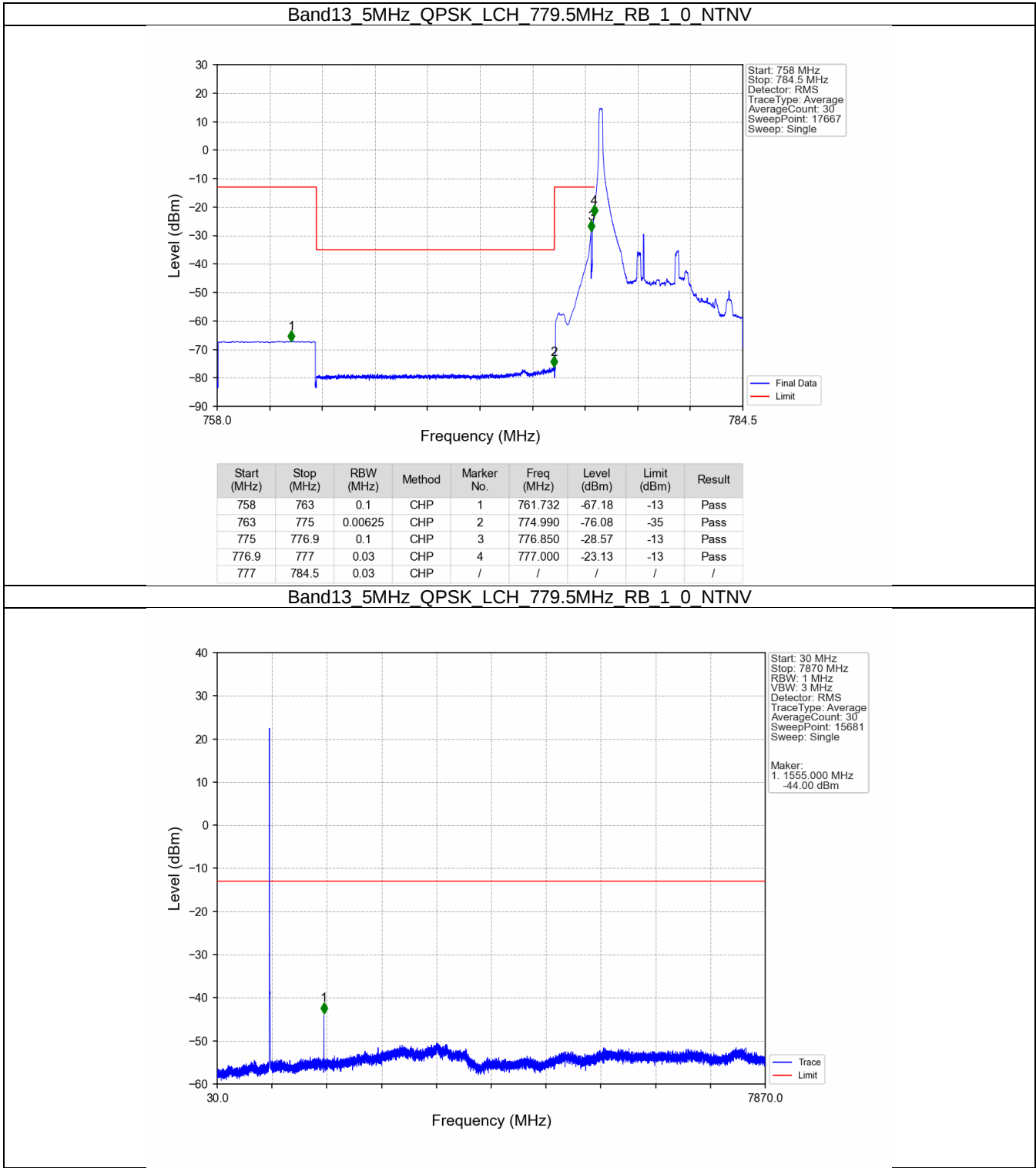
| Band: 13 / Bandwidth: 5MHz / NTV |                 |               |        |                     |       |         |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | 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

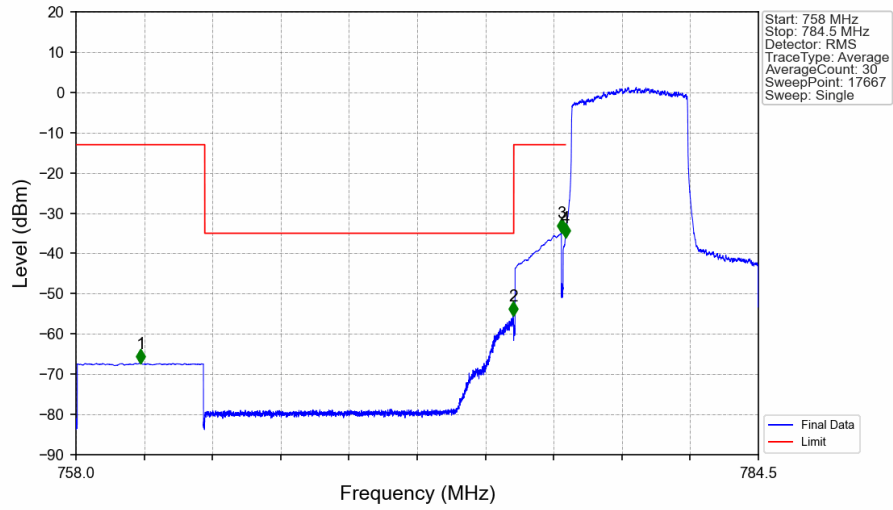
| Band: 13 / Bandwidth: 10MHz / NTNV |                 |               |        |                     |       |         |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                         | Frequency (MHz) | 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

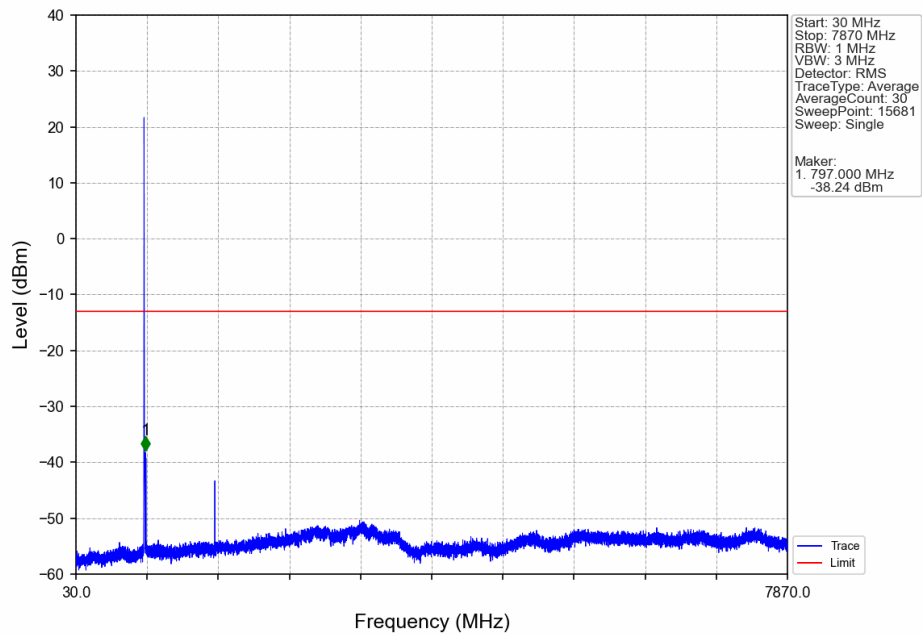


# Band13 5MHz QPSK LCH 779.5MHz RB 25 0 NTV

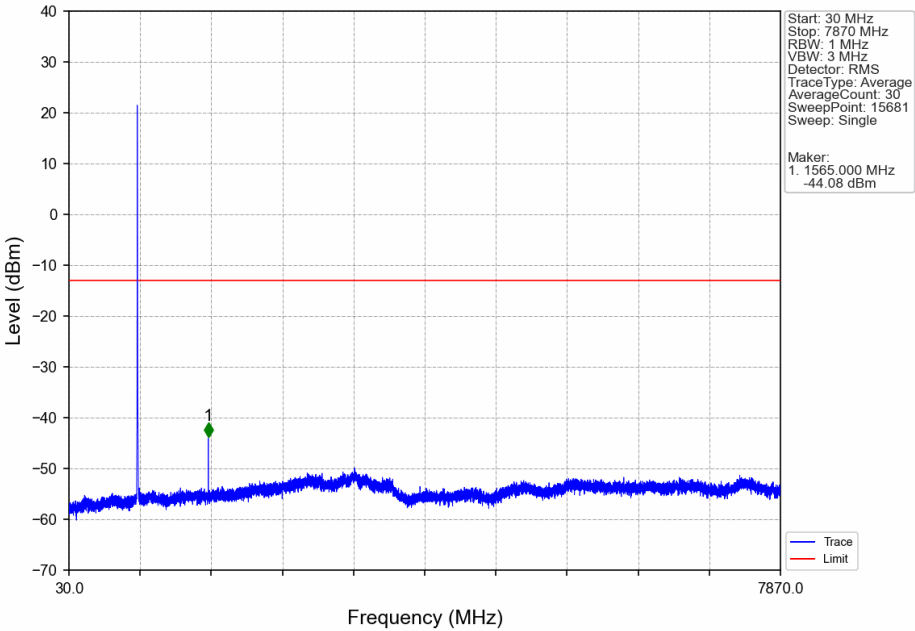


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 758         | 763        | 0.1       | CHP    | 1          | 760.510    | -67.24      | -13         | Pass   |
| 763         | 775        | 0.00625   | CHP    | 2          | 774.973    | -55.57      | -35         | Pass   |
| 775         | 776.9      | 0.1       | CHP    | 3          | 776.850    | -34.86      | -13         | Pass   |
| 776.9       | 777        | 0.03      | CHP    | 4          | 777.000    | -36.01      | -13         | Pass   |
| 777         | 784.5      | 0.03      | CHP    | /          | /          | /           | /           | /      |

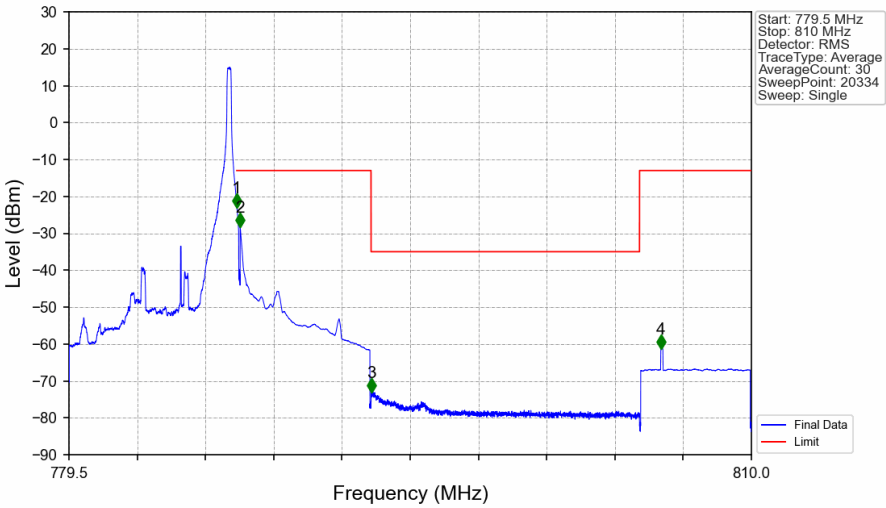
# Band13\_5MHz\_QPSK\_MCH\_782MHz\_RB\_1\_0\_NTNV



Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTN

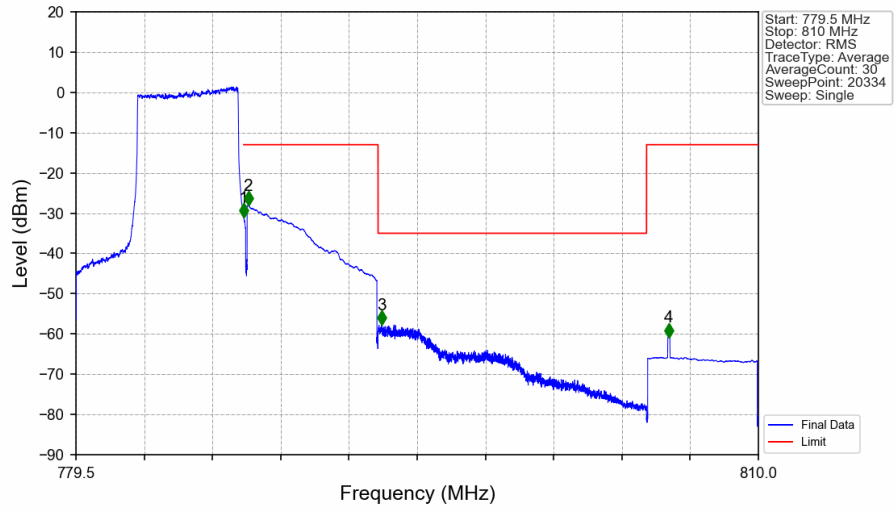


Band13\_5MHz\_QPSK\_HCH\_784.5MHz\_RB\_1\_24\_NTN



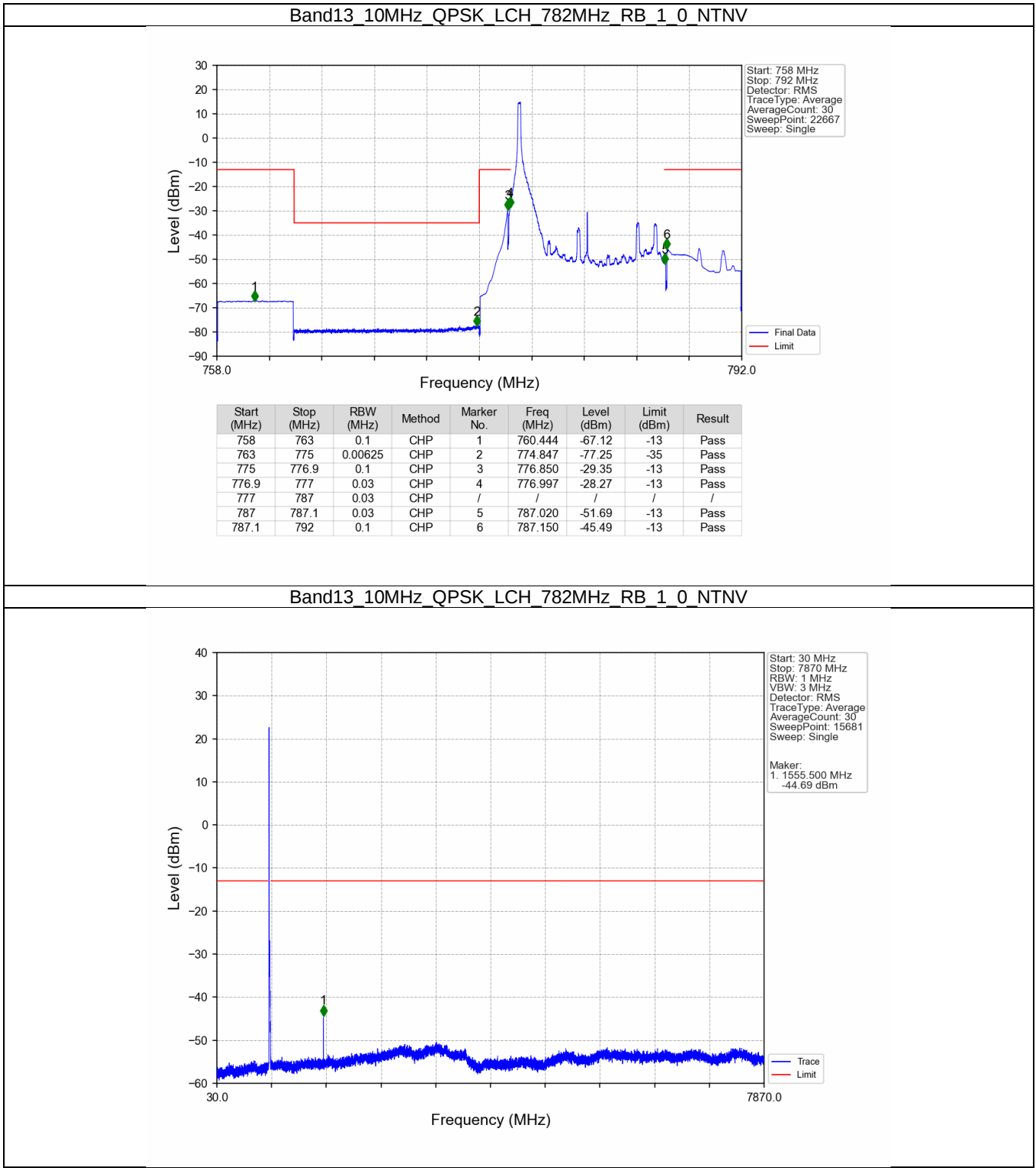
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 779.5       | 787        | 0.03      | CHP    | /          | /          | /           | /           | /      |
| 787         | 787.1      | 0.03      | CHP    | 1          | 787.000    | -22.95      | -13         | Pass   |
| 787.1       | 793        | 0.1       | CHP    | 2          | 787.150    | -28.20      | -13         | Pass   |
| 793         | 805        | 0.00625   | CHP    | 3          | 793.012    | -73.08      | -35         | Pass   |
| 805         | 810        | 0.1       | CHP    | 4          | 805.953    | -61.27      | -13         | Pass   |

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

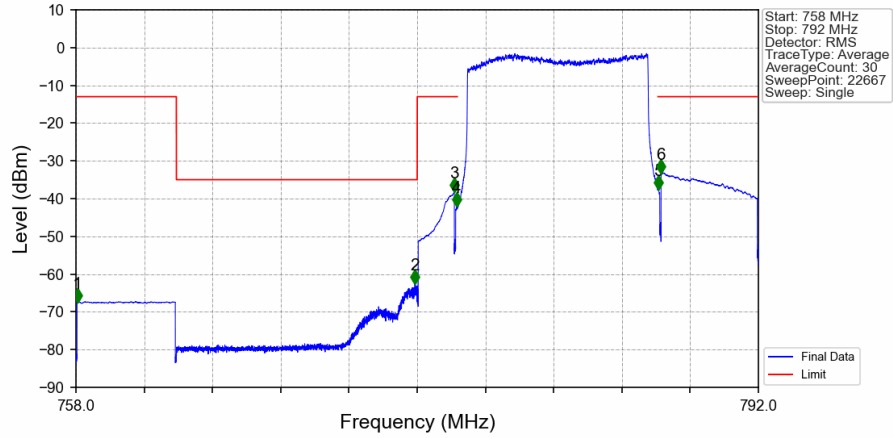


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 779.5       | 787        | 0.03      | CHP    | /          | /          | /           | /           | /      |
| 787         | 787.1      | 0.03      | CHP    | 1          | 787.000    | -31.08      | -13         | Pass   |
| 787.1       | 793        | 0.1       | CHP    | 2          | 787.203    | -28.06      | -13         | Pass   |
| 793         | 805        | 0.00625   | CHP    | 3          | 793.161    | -57.63      | -35         | Pass   |
| 805         | 810        | 0.1       | CHP    | 4          | 805.984    | -60.79      | -13         | Pass   |

5.2.2 B13\_10MHz

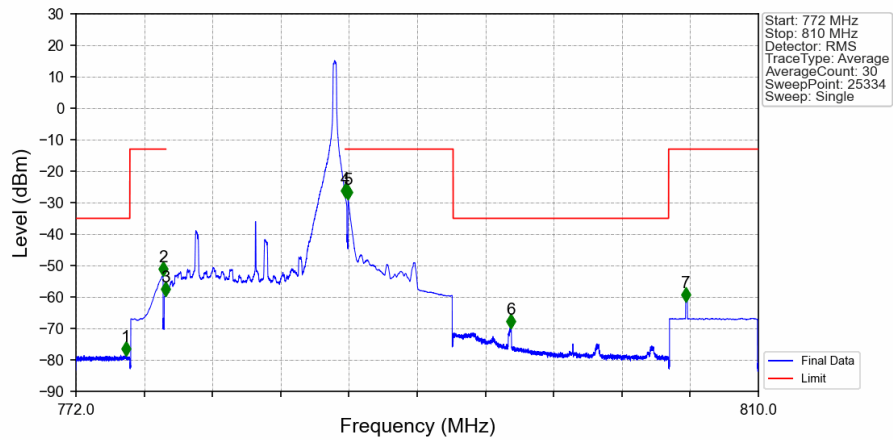


### Band13 10MHz QPSK LCH 782MHz RB 50 0 NTNV



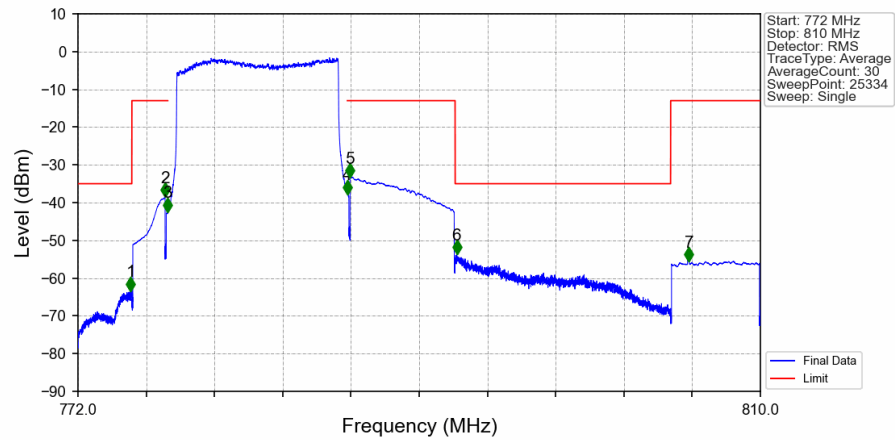
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 758         | 763        | 0.1       | CHP    | 1          | 758.062    | -67.25      | -13         | Pass   |
| 763         | 775        | 0.00625   | CHP    | 2          | 774.884    | -62.40      | -35         | Pass   |
| 775         | 776.9      | 0.1       | CHP    | 3          | 776.848    | -38.02      | -13         | Pass   |
| 776.9       | 777        | 0.03      | CHP    | 4          | 776.965    | -41.86      | -13         | Pass   |
| 777         | 787        | 0.03      | CHP    | /          | /          | /           | /           | /      |
| 787         | 787.1      | 0.03      | CHP    | 5          | 787.020    | -37.40      | -13         | Pass   |
| 787.1       | 792        | 0.1       | CHP    | 6          | 787.150    | -33.04      | -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          | 774.787    | -78.38      | -35         | Pass   |
| 775         | 776.9      | 0.1       | CHP    | 2          | 776.847    | -53.02      | -13         | Pass   |
| 776.9       | 777        | 0.03      | CHP    | 3          | 776.985    | -59.46      | -13         | Pass   |
| 777         | 787        | 0.03      | CHP    | /          | /          | /           | /           | /      |
| 787         | 787.1      | 0.03      | CHP    | 4          | 787.000    | -28.05      | -13         | Pass   |
| 787.1       | 793        | 0.1       | CHP    | 5          | 787.150    | -28.44      | -13         | Pass   |
| 793         | 805        | 0.00625   | CHP    | 6          | 796.216    | -69.65      | -35         | Pass   |
| 805         | 810        | 0.1       | CHP    | 7          | 805.951    | -61.20      | -13         | Pass   |

Band13 10MHz QPSK HCH 782MHz RB 50 0 NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 772         | 775        | 0.00625   | CHP    | 1          | 774.942    | -63.09      | -35         | Pass   |
| 775         | 776.9      | 0.1       | CHP    | 2          | 776.847    | -38.18      | -13         | Pass   |
| 776.9       | 777        | 0.03      | CHP    | 3          | 776.967    | -42.15      | -13         | Pass   |
| 777         | 787        | 0.03      | CHP    | /          | /          | /           | /           | /      |
| 787         | 787.1      | 0.03      | CHP    | 4          | 787.000    | -37.42      | -13         | Pass   |
| 787.1       | 793        | 0.1       | CHP    | 5          | 787.150    | -33.05      | -13         | Pass   |
| 793         | 805        | 0.00625   | CHP    | 6          | 793.089    | -53.36      | -35         | Pass   |
| 805         | 810        | 0.1       | CHP    | 7          | 806.022    | -55.26      | -13         | Pass   |

## 6. Field Strength of Spurious Radiation

| LTE Band 13-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                                                               | -70.63     | -13         | -57.63          | -73.77           | 2.6             | 5.74               | Horizontal         | Pass   |
| 2332.5                                                               | -68.68     | -13         | -55.68          | -71.14           | 2.96            | 5.42               | Horizontal         | Pass   |
| 3110.0                                                               | -67.29     | -13         | -54.29          | -71.29           | 3.2             | 7.2                | Horizontal         | Pass   |
| 1555.0                                                               | -70.5      | -13         | -57.5           | -73.64           | 2.6             | 5.74               | Vertical           | Pass   |
| 2332.5                                                               | -69.03     | -13         | -56.03          | -71.49           | 2.96            | 5.42               | Vertical           | Pass   |
| 3110.0                                                               | -67.21     | -13         | -54.21          | -71.21           | 3.2             | 7.2                | Vertical           | Pass   |

| LTE Band 13-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                                                           | -70.63     | -13         | -57.63          | -73.77           | 2.6             | 5.74               | Horizontal         | Pass   |
| 2331.75                                                          | -70.01     | -13         | -57.01          | -72.47           | 2.96            | 5.42               | Horizontal         | Pass   |
| 3109.0                                                           | -67.69     | -13         | -54.69          | -71.68           | 3.2             | 7.19               | Horizontal         | Pass   |
| 1554.5                                                           | -70.81     | -13         | -57.81          | -73.95           | 2.6             | 5.74               | Vertical           | Pass   |
| 2331.75                                                          | -70.49     | -13         | -57.49          | -72.95           | 2.96            | 5.42               | Vertical           | Pass   |
| 3109.0                                                           | -66.76     | -13         | -53.76          | -70.75           | 3.2             | 7.19               | Vertical           | Pass   |

| LTE Band 13-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                                                              | -70.8      | -40         | -30.8           | -73.93           | 2.6             | 5.73               | Horizontal         | Pass   |
| 2339.25                                                             | -69.92     | -13         | -56.92          | -72.39           | 2.96            | 5.43               | Horizontal         | Pass   |
| 3119.0                                                              | -67.72     | -13         | -54.72          | -71.73           | 3.21            | 7.22               | Horizontal         | Pass   |
| 1559.5                                                              | -71.23     | -40         | -31.23          | -74.36           | 2.6             | 5.73               | Vertical           | Pass   |
| 2339.25                                                             | -69.94     | -13         | -56.94          | -72.41           | 2.96            | 5.43               | Vertical           | Pass   |
| 3119.0                                                              | -67.21     | -13         | -54.21          | -71.22           | 3.21            | 7.22               | Vertical           | Pass   |

| LTE Band 13-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                                                            | -71.01        | -40            | -31.01                | -74.13                 | 2.6                   | 5.72                     | Horizontal            | Pass   |
| 2346.75                                                           | -70.02        | -13            | -57.02                | -72.5                  | 2.97                  | 5.45                     | Horizontal            | Pass   |
| 3129.0                                                            | -68.15        | -13            | -55.15                | -72.18                 | 3.21                  | 7.24                     | Horizontal            | Pass   |
| 1564.5                                                            | -71.07        | -40            | -31.07                | -74.19                 | 2.6                   | 5.72                     | Vertical              | Pass   |
| 2346.75                                                           | -70.39        | -13            | -57.39                | -72.87                 | 2.97                  | 5.45                     | Vertical              | Pass   |
| 3129.0                                                            | -67.38        | -13            | -54.38                | -71.41                 | 3.21                  | 7.24                     | Vertical              | Pass   |