

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 B30\_5MHz\_EIRP/10MHz

| Band: 30 / Bandwidth: 5MHz / NTNV |                 |               |        |                            |            |                       |         |         |
|-----------------------------------|-----------------|---------------|--------|----------------------------|------------|-----------------------|---------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm/5MHz) | Gain (dBi) | EIRP/10MHz (dBm/5MHz) |         | Verdict |
|                                   |                 | Size          | Offset |                            |            | Result                | Limit   |         |
| QPSK                              | 2307.5          | 1             | 0      | 22.09                      | 1.00       | 23.09                 | <=23.98 | Pass    |
|                                   |                 |               | 13     | 22.05                      | 1.00       | 23.05                 | <=23.98 | Pass    |
|                                   |                 |               | 24     | 22.18                      | 1.00       | 23.18                 | <=23.98 | Pass    |
|                                   |                 | 12            | 0      | 21.29                      | 1.00       | 22.29                 | <=23.98 | Pass    |
|                                   |                 |               | 6      | 21.23                      | 1.00       | 22.23                 | <=23.98 | Pass    |
|                                   |                 |               | 13     | 21.31                      | 1.00       | 22.31                 | <=23.98 | Pass    |
|                                   |                 | 25            | 0      | 21.27                      | 1.00       | 22.27                 | <=23.98 | Pass    |
|                                   | 2310            | 1             | 0      | 22.27                      | 1.00       | 23.27                 | <=23.98 | Pass    |
|                                   |                 |               | 13     | 22.43                      | 1.00       | 23.43                 | <=23.98 | Pass    |
|                                   |                 |               | 24     | 22.27                      | 1.00       | 23.27                 | <=23.98 | Pass    |
|                                   |                 | 12            | 0      | 21.33                      | 1.00       | 22.33                 | <=23.98 | Pass    |
|                                   |                 |               | 6      | 21.31                      | 1.00       | 22.31                 | <=23.98 | Pass    |
|                                   |                 |               | 13     | 21.34                      | 1.00       | 22.34                 | <=23.98 | Pass    |
|                                   |                 | 25            | 0      | 21.21                      | 1.00       | 22.21                 | <=23.98 | Pass    |
|                                   | 2312.5          | 1             | 0      | 22.27                      | 1.00       | 23.27                 | <=23.98 | Pass    |
|                                   |                 |               | 13     | 22.35                      | 1.00       | 23.35                 | <=23.98 | Pass    |
|                                   |                 |               | 24     | 22.32                      | 1.00       | 23.32                 | <=23.98 | Pass    |
|                                   |                 | 12            | 0      | 21.34                      | 1.00       | 22.34                 | <=23.98 | Pass    |
|                                   |                 |               | 6      | 21.27                      | 1.00       | 22.27                 | <=23.98 | Pass    |
|                                   |                 |               | 13     | 21.39                      | 1.00       | 22.39                 | <=23.98 | Pass    |
|                                   |                 | 25            | 0      | 21.34                      | 1.00       | 22.34                 | <=23.98 | Pass    |
| 16QAM                             | 2307.5          | 1             | 0      | 21.43                      | 1.00       | 22.43                 | <=23.98 | Pass    |
|                                   |                 |               | 13     | 21.45                      | 1.00       | 22.45                 | <=23.98 | Pass    |
|                                   |                 |               | 24     | 21.33                      | 1.00       | 22.33                 | <=23.98 | Pass    |
|                                   |                 | 12            | 0      | 20.36                      | 1.00       | 21.36                 | <=23.98 | Pass    |
|                                   |                 |               | 6      | 20.15                      | 1.00       | 21.15                 | <=23.98 | Pass    |
|                                   |                 |               | 13     | 20.22                      | 1.00       | 21.22                 | <=23.98 | Pass    |
|                                   |                 | 25            | 0      | 20.34                      | 1.00       | 21.34                 | <=23.98 | Pass    |
|                                   | 2310            | 1             | 0      | 21.29                      | 1.00       | 22.29                 | <=23.98 | Pass    |
|                                   |                 |               | 13     | 21.09                      | 1.00       | 22.09                 | <=23.98 | Pass    |
|                                   |                 |               | 24     | 21.55                      | 1.00       | 22.55                 | <=23.98 | Pass    |
|                                   |                 | 12            | 0      | 20.29                      | 1.00       | 21.29                 | <=23.98 | Pass    |
|                                   |                 |               | 6      | 20.25                      | 1.00       | 21.25                 | <=23.98 | Pass    |
|                                   |                 |               | 13     | 20.10                      | 1.00       | 21.10                 | <=23.98 | Pass    |
|                                   |                 | 25            | 0      | 20.26                      | 1.00       | 21.26                 | <=23.98 | Pass    |
|                                   | 2312.5          | 1             | 0      | 21.25                      | 1.00       | 22.25                 | <=23.98 | Pass    |
|                                   |                 |               | 13     | 21.65                      | 1.00       | 22.65                 | <=23.98 | Pass    |
|                                   |                 |               | 24     | 21.48                      | 1.00       | 22.48                 | <=23.98 | Pass    |
|                                   |                 | 12            | 0      | 20.40                      | 1.00       | 21.40                 | <=23.98 | Pass    |
|                                   |                 |               | 6      | 20.26                      | 1.00       | 21.26                 | <=23.98 | Pass    |
|                                   |                 |               | 13     | 20.28                      | 1.00       | 21.28                 | <=23.98 | Pass    |
|                                   |                 | 25            | 0      | 20.30                      | 1.00       | 21.30                 | <=23.98 | Pass    |
| 64QAM                             | 2307.5          | 1             | 0      | 21.35                      | 1.00       | 22.35                 | <=23.98 | Pass    |
|                                   |                 |               | 13     | 20.92                      | 1.00       | 21.92                 | <=23.98 | Pass    |
|                                   |                 |               | 24     | 21.03                      | 1.00       | 22.03                 | <=23.98 | Pass    |
|                                   |                 | 12            | 0      | 20.29                      | 1.00       | 21.29                 | <=23.98 | Pass    |
|                                   |                 |               | 6      | 20.29                      | 1.00       | 21.29                 | <=23.98 | Pass    |

|  |        |    |       |       |       |         |         |      |
|--|--------|----|-------|-------|-------|---------|---------|------|
|  |        |    | 13    | 20.17 | 1.00  | 21.17   | <=23.98 | Pass |
|  |        | 25 | 0     | 20.24 | 1.00  | 21.24   | <=23.98 | Pass |
|  | 2310   | 1  | 0     | 21.32 | 1.00  | 22.32   | <=23.98 | Pass |
|  |        |    | 13    | 21.26 | 1.00  | 22.26   | <=23.98 | Pass |
|  |        |    | 24    | 20.80 | 1.00  | 21.80   | <=23.98 | Pass |
|  |        | 12 | 0     | 20.28 | 1.00  | 21.28   | <=23.98 | Pass |
|  |        |    | 6     | 20.34 | 1.00  | 21.34   | <=23.98 | Pass |
|  |        |    | 13    | 20.29 | 1.00  | 21.29   | <=23.98 | Pass |
|  |        | 25 | 0     | 20.19 | 1.00  | 21.19   | <=23.98 | Pass |
|  | 2312.5 | 1  | 0     | 20.70 | 1.00  | 21.70   | <=23.98 | Pass |
|  |        |    | 13    | 21.73 | 1.00  | 22.73   | <=23.98 | Pass |
|  |        |    | 24    | 21.17 | 1.00  | 22.17   | <=23.98 | Pass |
|  |        | 12 | 0     | 20.30 | 1.00  | 21.30   | <=23.98 | Pass |
|  |        |    | 6     | 20.31 | 1.00  | 21.31   | <=23.98 | Pass |
|  |        |    | 13    | 20.34 | 1.00  | 21.34   | <=23.98 | Pass |
|  | 25     | 0  | 20.31 | 1.00  | 21.31 | <=23.98 | Pass    |      |

Note1: EIRP/10MHz=Conducted Power+Antenna Gain

### 1.1.2 B30\_10MHz\_EIRP/10MHz

| Band: 30 / Bandwidth: 10MHz / NTNV |                 |               |        |                            |            |                       |         |         |
|------------------------------------|-----------------|---------------|--------|----------------------------|------------|-----------------------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm/5MHz) | Gain (dBi) | EIRP/10MHz (dBm/5MHz) |         | Verdict |
|                                    |                 | Size          | Offset |                            |            | Result                | Limit   |         |
| QPSK                               | 2310            | 1             | 0      | 22.33                      | 1.00       | 23.33                 | <=23.98 | Pass    |
|                                    |                 |               | 25     | 22.28                      | 1.00       | 23.28                 | <=23.98 | Pass    |
|                                    |                 |               | 49     | 22.18                      | 1.00       | 23.18                 | <=23.98 | Pass    |
|                                    |                 | 25            | 0      | 21.27                      | 1.00       | 22.27                 | <=23.98 | Pass    |
|                                    |                 |               | 13     | 21.29                      | 1.00       | 22.29                 | <=23.98 | Pass    |
|                                    |                 |               | 25     | 21.27                      | 1.00       | 22.27                 | <=23.98 | Pass    |
|                                    |                 | 50            | 0      | 21.58                      | 1.00       | 22.58                 | <=23.98 | Pass    |
| 16QAM                              | 2310            | 1             | 0      | 21.41                      | 1.00       | 22.41                 | <=23.98 | Pass    |
|                                    |                 |               | 25     | 21.55                      | 1.00       | 22.55                 | <=23.98 | Pass    |
|                                    |                 |               | 49     | 21.30                      | 1.00       | 22.30                 | <=23.98 | Pass    |
|                                    |                 | 25            | 0      | 20.21                      | 1.00       | 21.21                 | <=23.98 | Pass    |
|                                    |                 |               | 13     | 20.27                      | 1.00       | 21.27                 | <=23.98 | Pass    |
|                                    |                 |               | 25     | 20.60                      | 1.00       | 21.60                 | <=23.98 | Pass    |
|                                    |                 | 50            | 0      | 20.57                      | 1.00       | 21.57                 | <=23.98 | Pass    |
| 64QAM                              | 2310            | 1             | 0      | 21.26                      | 1.00       | 22.26                 | <=23.98 | Pass    |
|                                    |                 |               | 25     | 21.33                      | 1.00       | 22.33                 | <=23.98 | Pass    |
|                                    |                 |               | 49     | 21.14                      | 1.00       | 22.14                 | <=23.98 | Pass    |
|                                    |                 | 25            | 0      | 20.31                      | 1.00       | 21.31                 | <=23.98 | Pass    |
|                                    |                 |               | 13     | 20.32                      | 1.00       | 21.32                 | <=23.98 | Pass    |
|                                    |                 |               | 25     | 20.22                      | 1.00       | 21.22                 | <=23.98 | Pass    |
|                                    |                 | 50            | 0      | 20.56                      | 1.00       | 21.56                 | <=23.98 | Pass    |

Note1: EIRP/10MHz=Conducted Power+Antenna Gain

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B30\_10MHz

| Band: 30 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 2310            | 50            | 0      | 20         | LV            | 0.500            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | HV            | -1.200           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | NV            | -0.700           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | NV            | -0.700           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | NV            | -0.700           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | NV            | -1.800           | -0.0008               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | NV            | -1.000           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | NV            | -2.400           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | NV            | 0.200            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | NV            | -1.700           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | NV            | -3.500           | -0.0015               | -2.5 to 2.5 | Pass    |

## 3. 99% & 26dB Bandwidth

### 3.1 Test Result

#### 3.1.1 Band30\_OBW

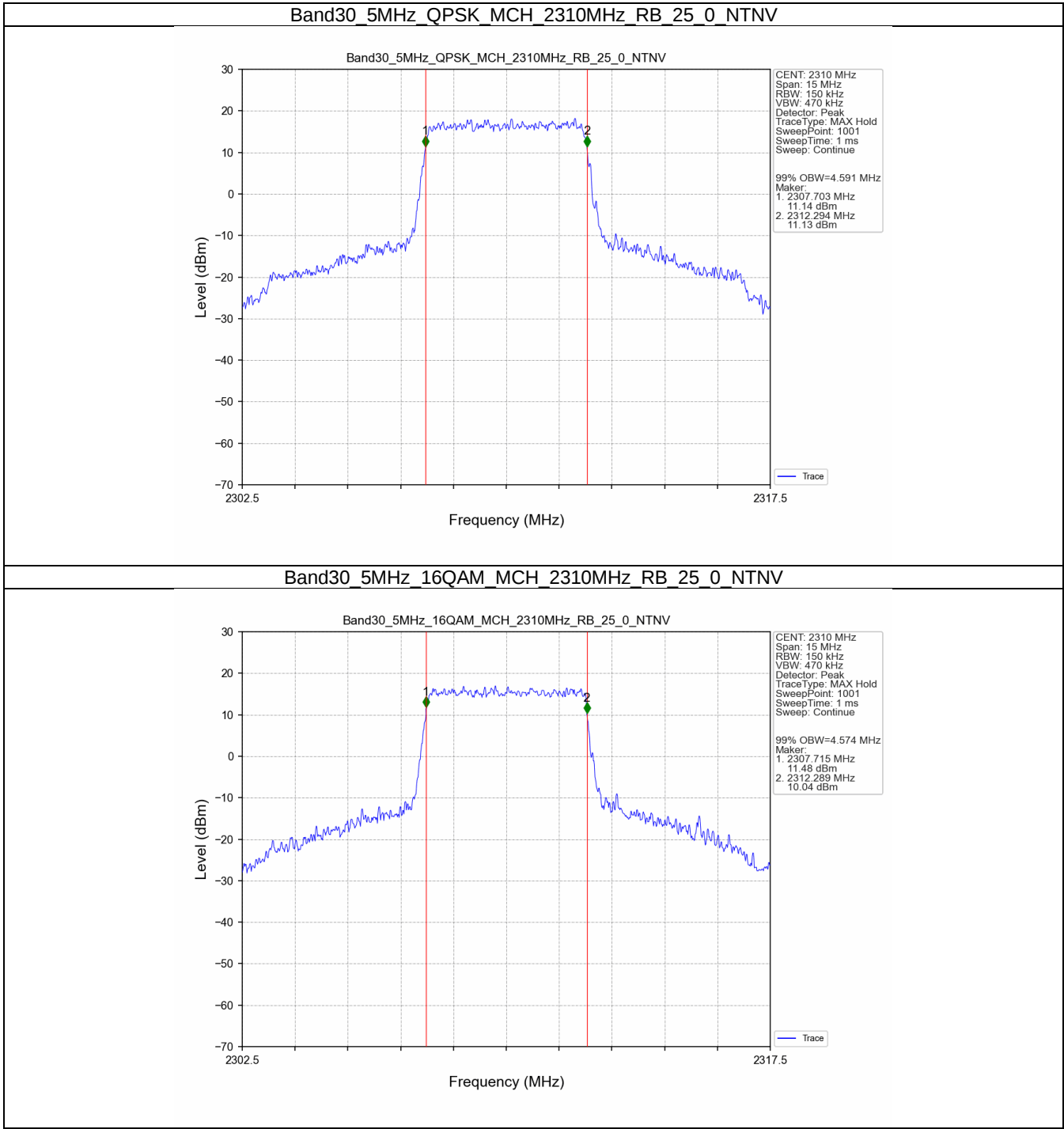
| Band: 30 / NTNV |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 5               | QPSK       | 2310            | 25            | 0      | 4.591                        | /     | Pass    |
|                 | 16QAM      | 2310            | 25            | 0      | 4.574                        | /     | Pass    |
| 10              | QPSK       | 2310            | 50            | 0      | 9.091                        | /     | Pass    |
|                 | 16QAM      | 2310            | 50            | 0      | 9.072                        | /     | Pass    |

#### 3.1.2 Band30\_XDB

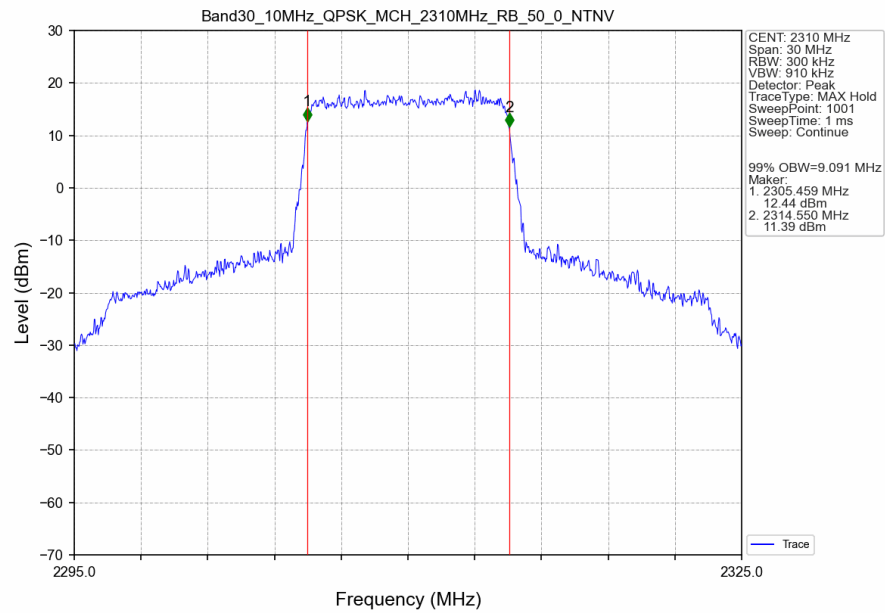
| Band: 30 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 5               | QPSK       | 2310            | 25            | 0      | 5.224                | /     | Pass    |
|                 | 16QAM      | 2310            | 25            | 0      | 5.701                | /     | Pass    |
| 10              | QPSK       | 2310            | 50            | 0      | 10.288               | /     | Pass    |
|                 | 16QAM      | 2310            | 50            | 0      | 10.310               | /     | Pass    |

# 3.2 Test Graph

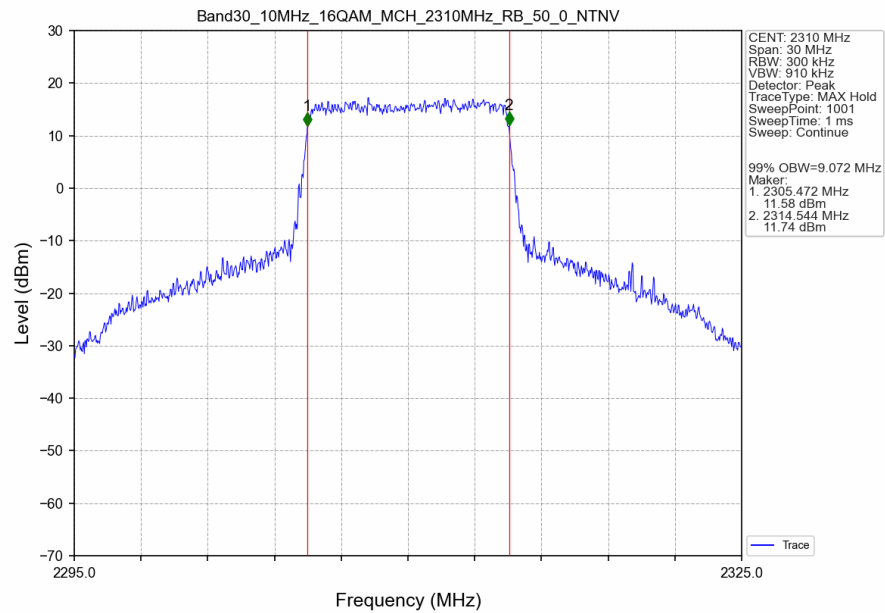
## 3.2.1 Band30\_OBW



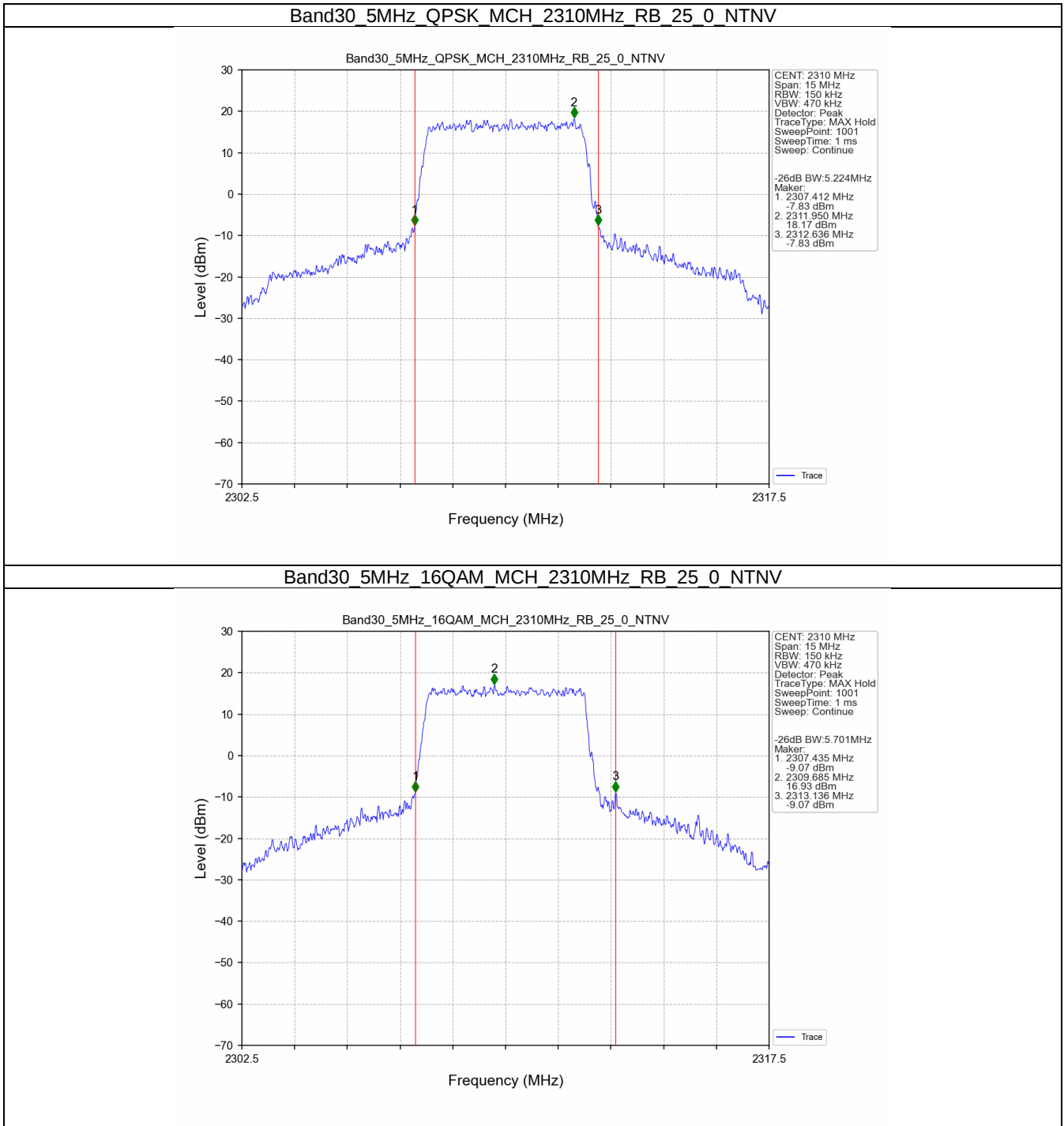
# Band30\_10MHz\_QPSK\_MCH\_2310MHz\_RB\_50\_0\_NTNV



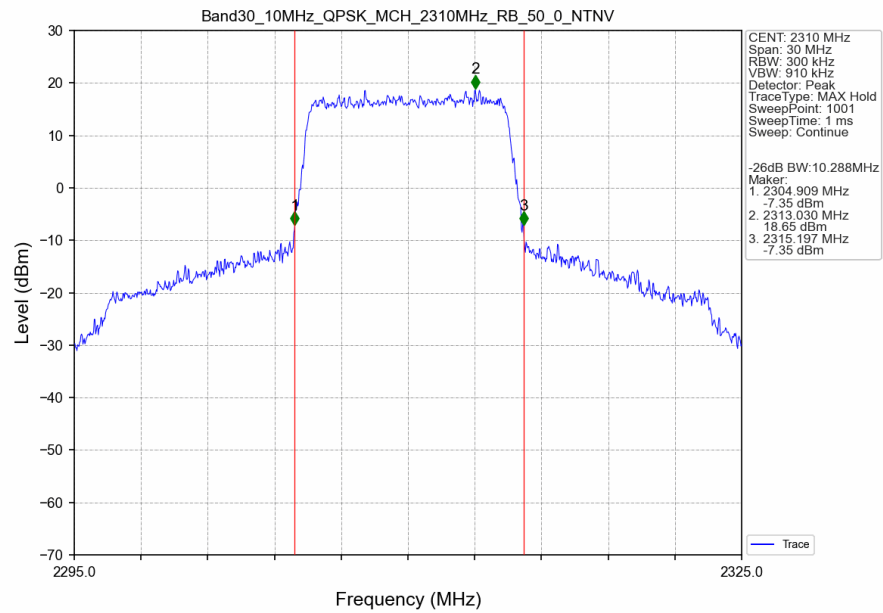
# Band30\_10MHz\_16QAM\_MCH\_2310MHz\_RB\_50\_0\_NTNV



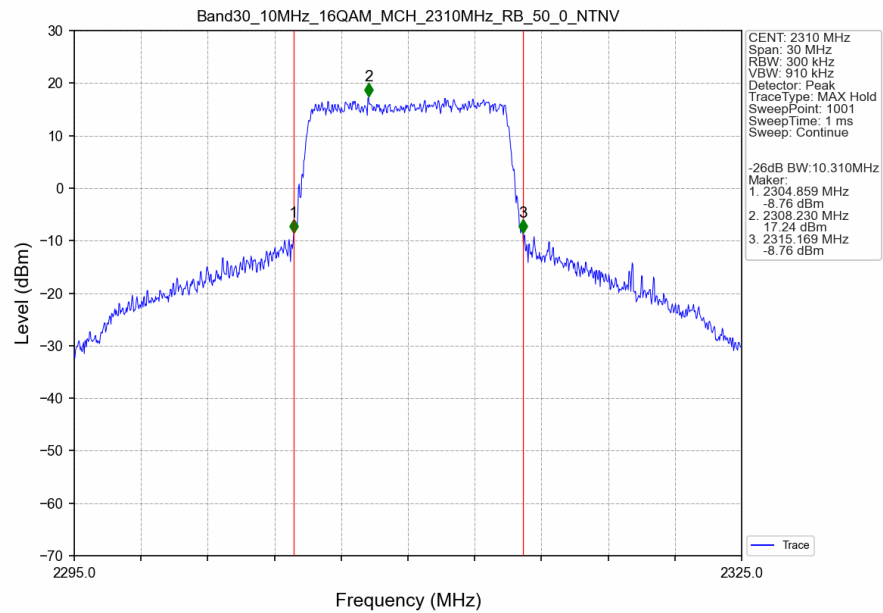
3.2.2 Band30\_XDB



# Band30\_10MHz\_QPSK\_MCH\_2310MHz\_RB\_50\_0\_NTNV



# Band30\_10MHz\_16QAM\_MCH\_2310MHz\_RB\_50\_0\_NTNV



4. Peak-Average Ratio

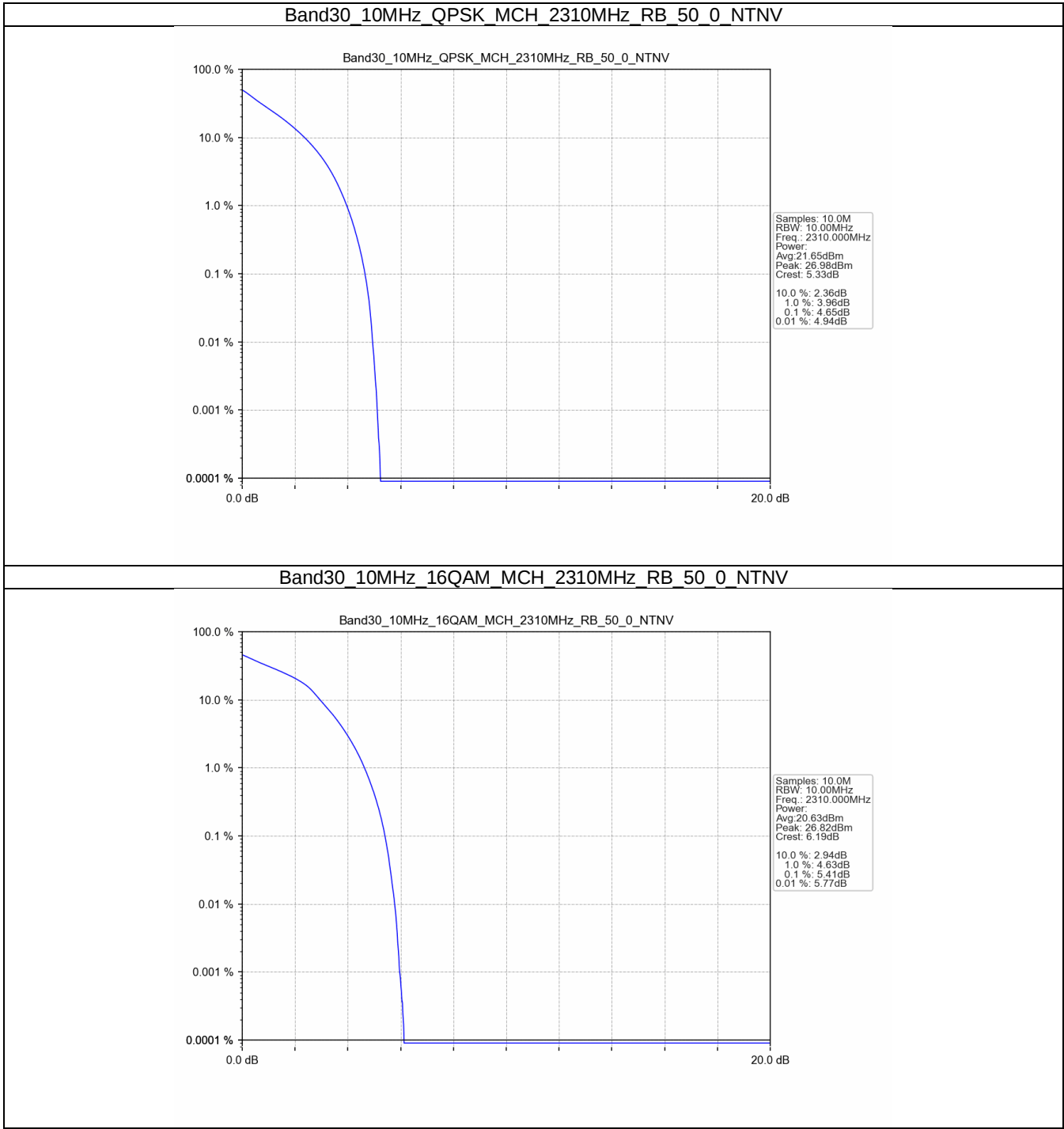
4.1 Test Result

4.1.1 B30\_10MHz

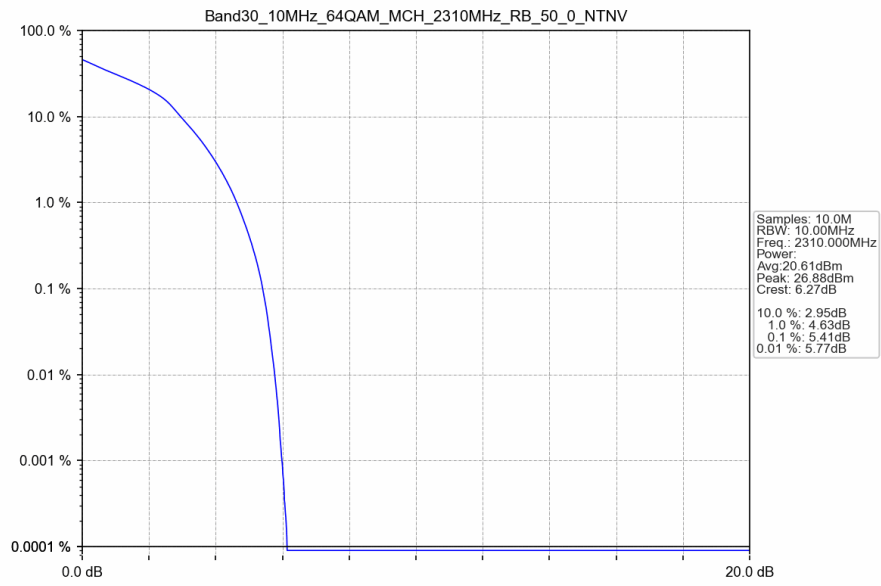
| Band: 30 / Bandwidth: 10MHz / NTNV |                    |               |        |                         |       |         |
|------------------------------------|--------------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency<br>(MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                    | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 2310               | 50            | 0      | 4.65                    | <=13  | Pass    |
| 16QAM                              | 2310               | 50            | 0      | 5.41                    | <=13  | Pass    |
| 64QAM                              | 2310               | 50            | 0      | 5.41                    | <=13  | Pass    |

# 4.2 Test Graph

## 4.2.1 B30\_10MHz



Band30 10MHz 64QAM MCH 2310MHz RB 50 0 NTV



## 5. Spurious Emission

### 5.1 Test Result

#### 5.1.1 B30\_5MHz

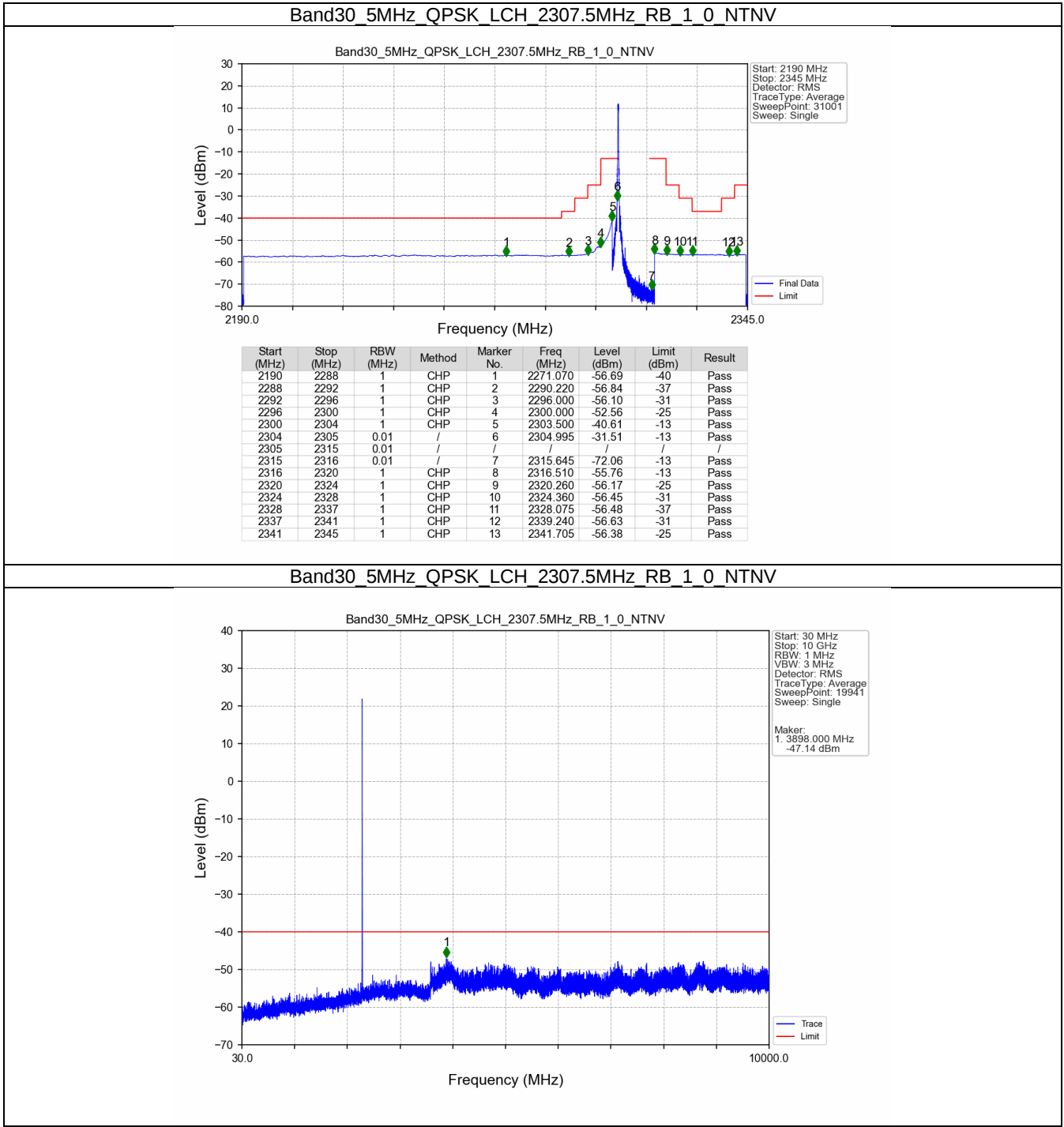
| Band: 30 / Bandwidth: 5MHz / NTV |                 |               |        |                     |       |         |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                  |                 | Size          | Offset | Result              | Limit |         |
| QPSK                             | 2307.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
|                                  | 2310            | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  | 2312.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 24     | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |

#### 5.1.2 B30\_10MHz

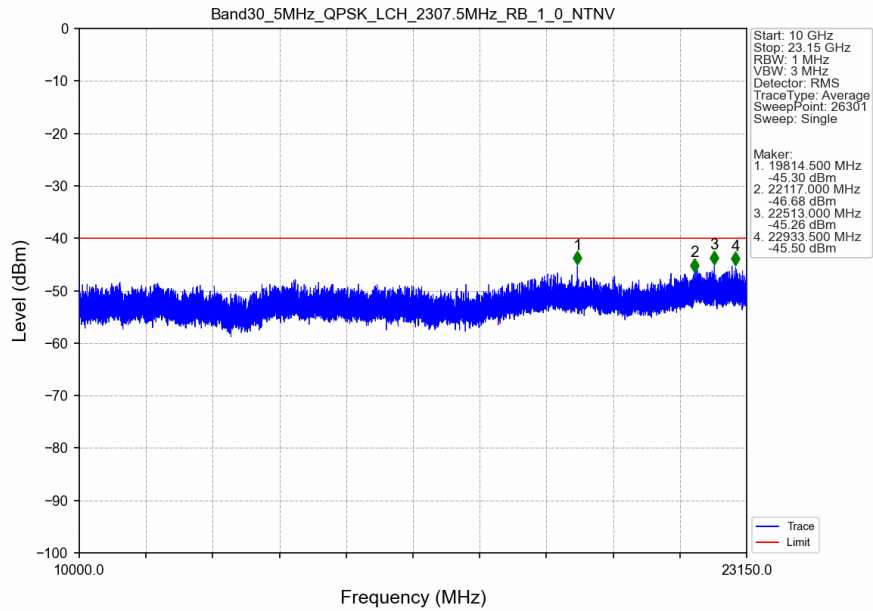
| Band: 30 / Bandwidth: 10MHz / NTNV |                 |               |        |                     |       |         |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                    |                 | Size          | Offset | Result              | Limit |         |
| QPSK                               | 2310            | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    |                 | 50            | 0      | Refer To Test Graph |       | Pass    |
|                                    | 2310            | 1             | 49     | Refer To Test Graph |       | Pass    |
|                                    |                 | 50            | 0      | Refer To Test Graph |       | Pass    |

5.2 Test Graph

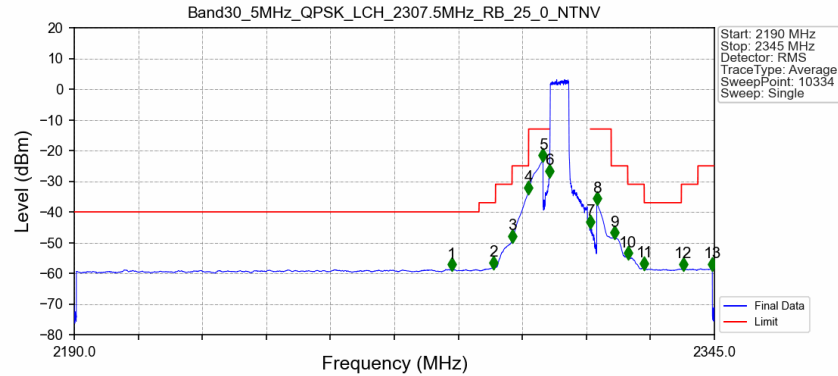
5.2.1 B30\_5MHz



# Band30 5MHz QPSK LCH 2307.5MHz RB 1 0 NTV

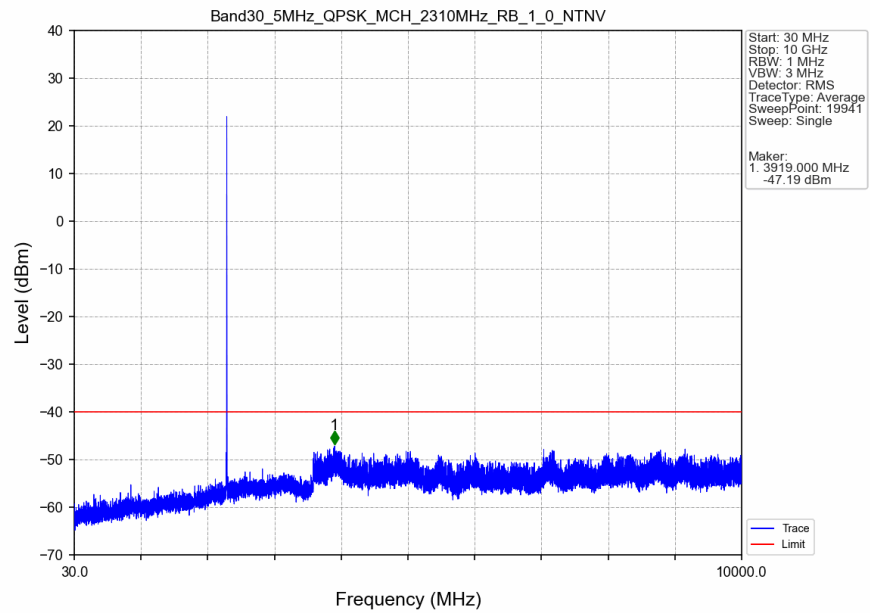


# Band30\_5MHz\_QPSK\_LCH\_2307.5MHz\_RB\_25\_0\_NTV

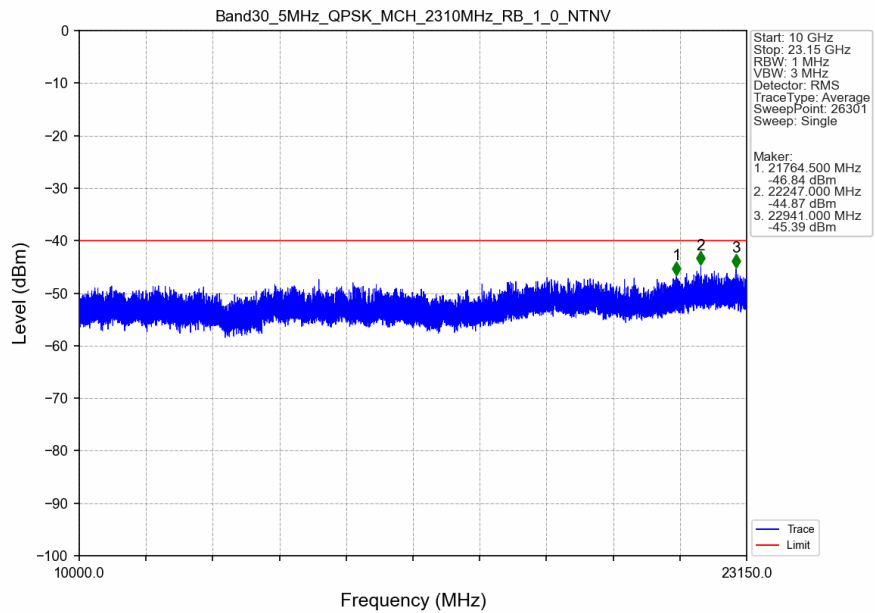


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2190        | 2288       | 1         | CHP    | 1          | 2281.353   | -58.69      | -40         | Pass   |
| 2288        | 2292       | 1         | CHP    | 2          | 2291.448   | -58.15      | -37         | Pass   |
| 2292        | 2296       | 1         | CHP    | 3          | 2295.993   | -49.41      | -31         | Pass   |
| 2296        | 2300       | 1         | CHP    | 4          | 2299.999   | -33.59      | -25         | Pass   |
| 2300        | 2304       | 1         | CHP    | 5          | 2303.494   | -23.15      | -13         | Pass   |
| 2304        | 2305       | 0.052     | CHP    | 6          | 2304.994   | -28.16      | -13         | Pass   |
| 2305        | 2315       | 0.052     | CHP    | /          | /          | /           | /           | /      |
| 2315        | 2316       | 0.052     | CHP    | 7          | 2315.029   | -44.71      | -13         | Pass   |
| 2316        | 2320       | 1         | CHP    | 8          | 2316.514   | -37.21      | -13         | Pass   |
| 2320        | 2324       | 1         | CHP    | 9          | 2320.819   | -48.34      | -25         | Pass   |
| 2324        | 2328       | 1         | CHP    | 10         | 2324.089   | -54.97      | -31         | Pass   |
| 2328        | 2337       | 1         | CHP    | 11         | 2328.004   | -58.39      | -37         | Pass   |
| 2337        | 2341       | 1         | CHP    | 12         | 2337.440   | -58.62      | -31         | Pass   |
| 2341        | 2345       | 1         | CHP    | 13         | 2344.460   | -58.53      | -25         | Pass   |

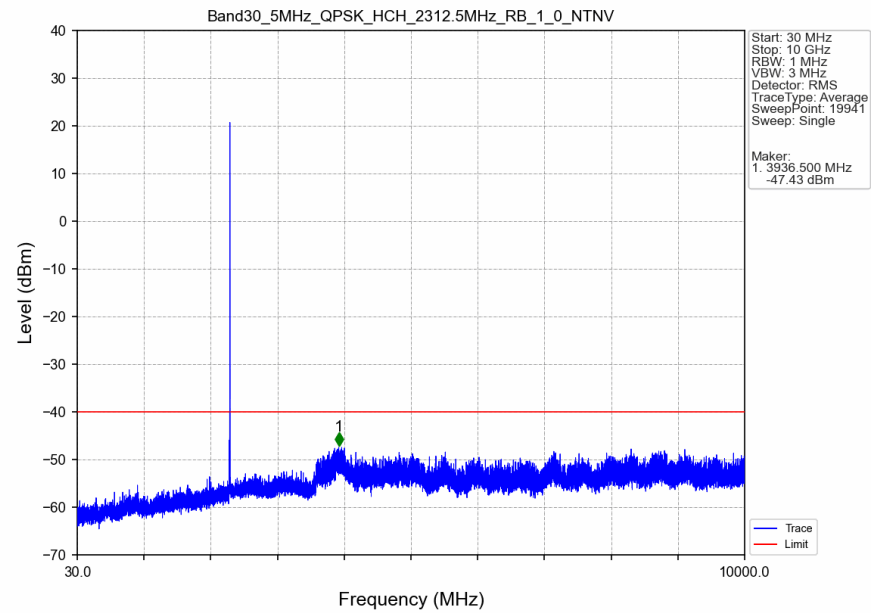
# Band30 5MHz QPSK MCH 2310MHz RB 1 0 NTN



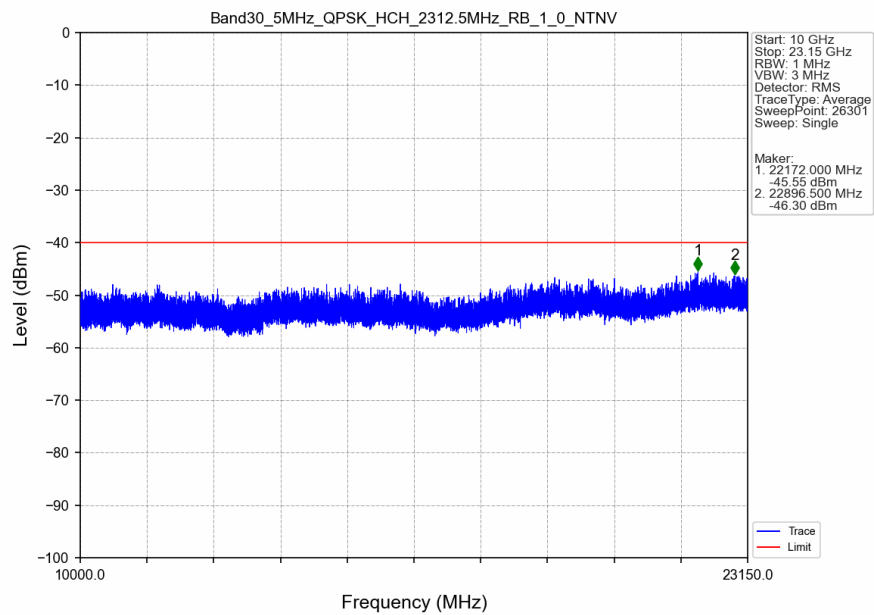
# Band30 5MHz QPSK MCH 2310MHz RB 1 0 NTN



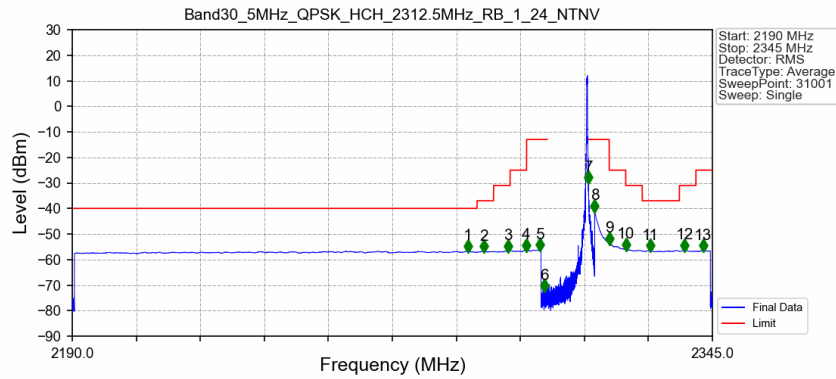
# Band30\_5MHz\_QPSK\_HCH\_2312.5MHz\_RB\_1\_0\_NTNV



# Band30\_5MHz\_QPSK\_HCH\_2312.5MHz\_RB\_1\_0\_NTNV

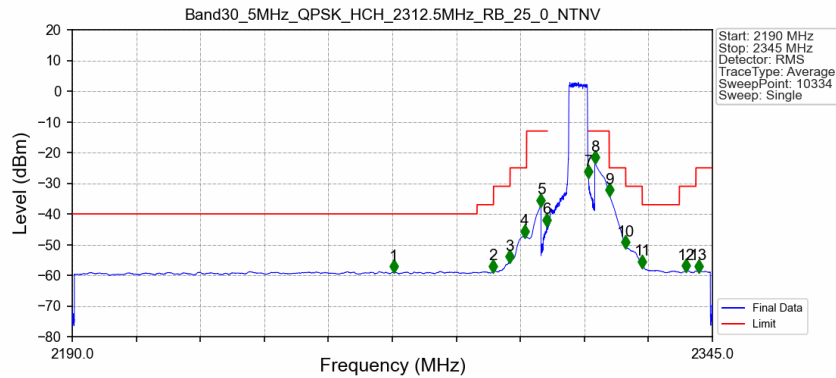


# Band30 5MHz QPSK HCH 2312.5MHz RB 1 24 NTNV



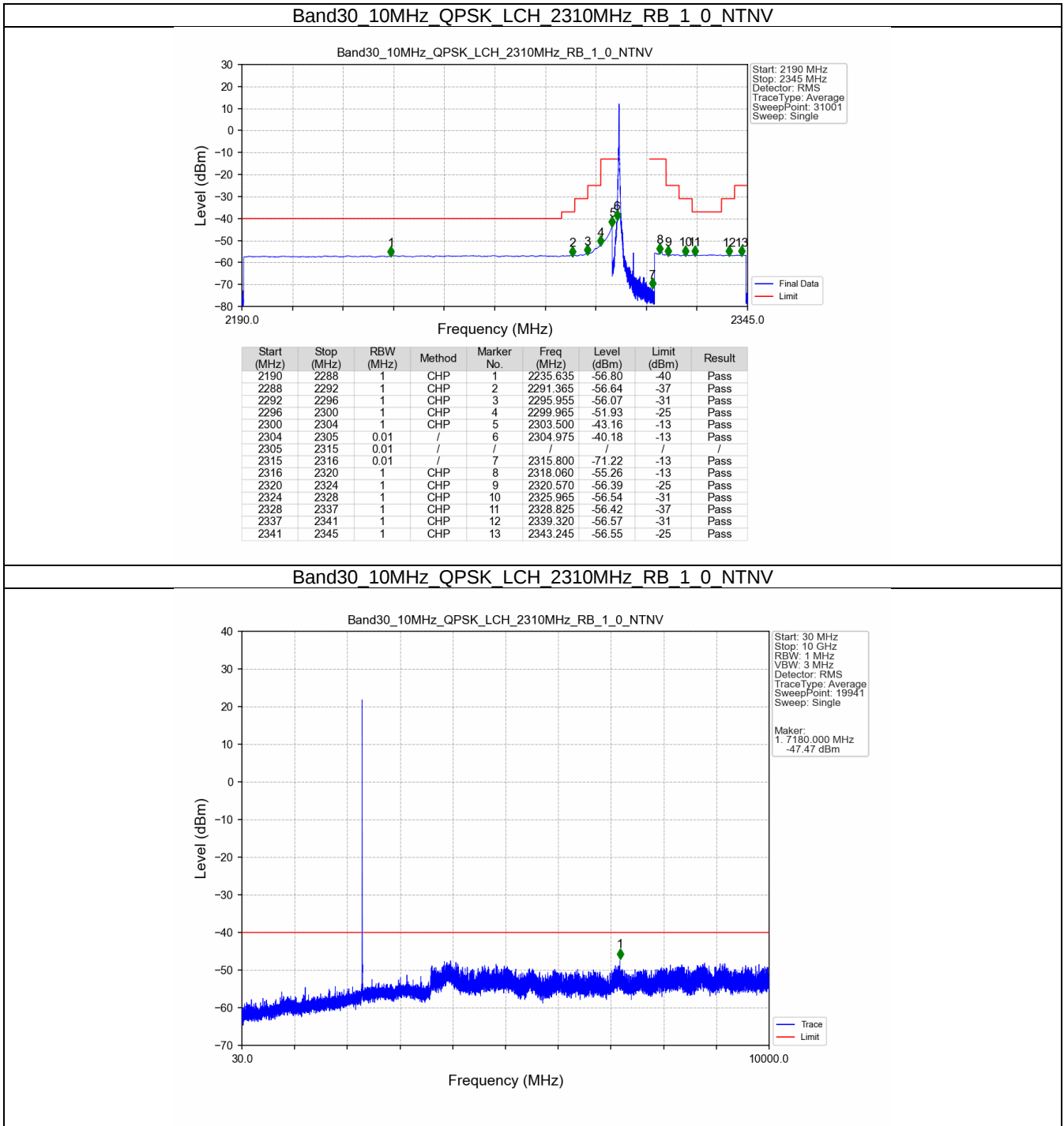
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2190        | 2288       | 1         | CHP    | 1          | 2285.780   | -56.69      | -40         | Pass   |
| 2288        | 2292       | 1         | CHP    | 2          | 2289.695   | -56.77      | -37         | Pass   |
| 2292        | 2296       | 1         | CHP    | 3          | 2295.495   | -56.59      | -31         | Pass   |
| 2296        | 2300       | 1         | CHP    | 4          | 2299.895   | -56.32      | -25         | Pass   |
| 2300        | 2304       | 1         | CHP    | 5          | 2303.285   | -56.13      | -13         | Pass   |
| 2304        | 2305       | 0.01      | /      | 6          | 2304.290   | -72.15      | -13         | Pass   |
| 2305        | 2315       | 0.01      | /      | /          | /          | /           | /           | /      |
| 2315        | 2316       | 0.01      | /      | 7          | 2315.010   | -29.77      | -13         | Pass   |
| 2316        | 2320       | 1         | CHP    | 8          | 2316.500   | -40.92      | -13         | Pass   |
| 2320        | 2324       | 1         | CHP    | 9          | 2320.030   | -53.59      | -25         | Pass   |
| 2324        | 2328       | 1         | CHP    | 10         | 2324.080   | -56.09      | -31         | Pass   |
| 2328        | 2337       | 1         | CHP    | 11         | 2329.995   | -56.45      | -37         | Pass   |
| 2337        | 2341       | 1         | CHP    | 12         | 2338.210   | -56.40      | -31         | Pass   |
| 2341        | 2345       | 1         | CHP    | 13         | 2342.760   | -56.42      | -25         | Pass   |

# Band30 5MHz QPSK HCH 2312.5MHz RB 25 0 NTNV

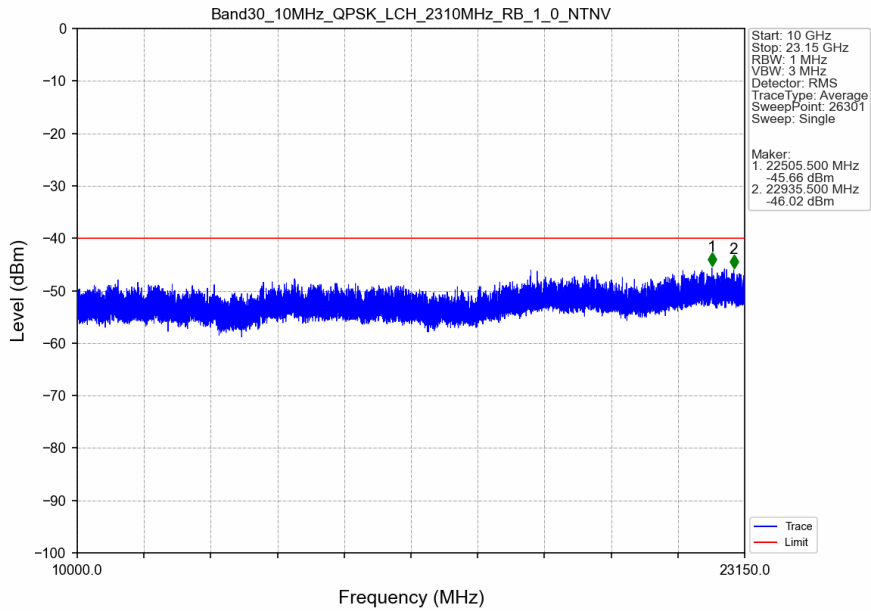


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2190        | 2288       | 1         | CHP    | 1          | 2267.808   | -58.74      | -40         | Pass   |
| 2288        | 2292       | 1         | CHP    | 2          | 2291.838   | -58.62      | -37         | Pass   |
| 2292        | 2296       | 1         | CHP    | 3          | 2295.978   | -55.48      | -31         | Pass   |
| 2296        | 2300       | 1         | CHP    | 4          | 2299.534   | -47.26      | -25         | Pass   |
| 2300        | 2304       | 1         | CHP    | 5          | 2303.494   | -37.03      | -13         | Pass   |
| 2304        | 2305       | 0.052     | CHP    | 6          | 2304.904   | -43.53      | -13         | Pass   |
| 2305        | 2315       | 0.052     | CHP    | /          | /          | /           | /           | /      |
| 2315        | 2316       | 0.052     | CHP    | 7          | 2315.014   | -27.83      | -13         | Pass   |
| 2316        | 2320       | 1         | CHP    | 8          | 2316.514   | -23.18      | -13         | Pass   |
| 2320        | 2324       | 1         | CHP    | 9          | 2320.009   | -33.74      | -25         | Pass   |
| 2324        | 2328       | 1         | CHP    | 10         | 2324.014   | -50.81      | -31         | Pass   |
| 2328        | 2337       | 1         | CHP    | 11         | 2328.004   | -57.05      | -37         | Pass   |
| 2337        | 2341       | 1         | CHP    | 12         | 2338.625   | -58.47      | -31         | Pass   |
| 2341        | 2345       | 1         | CHP    | 13         | 2341.670   | -58.55      | -25         | Pass   |

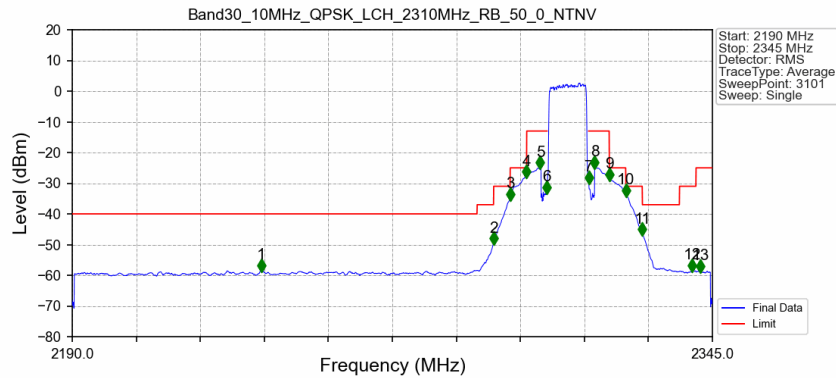
5.2.2 B30\_10MHz



Band30\_10MHz\_QPSK\_LCH\_2310MHz\_RB\_1\_0\_NTNV

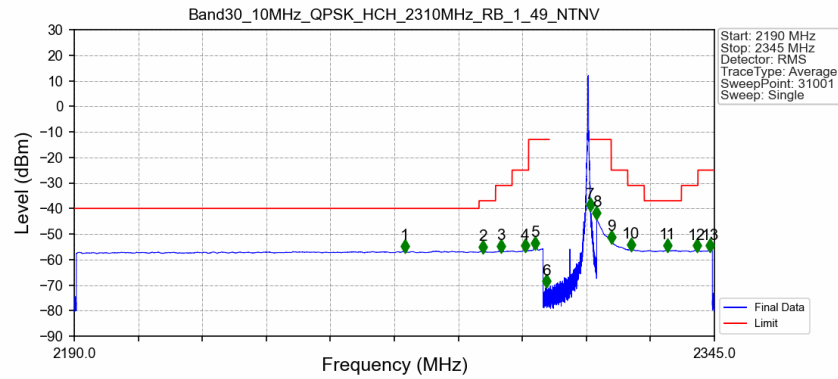


Band30\_10MHz\_QPSK\_LCH\_2310MHz\_RB\_50\_0\_NTNV



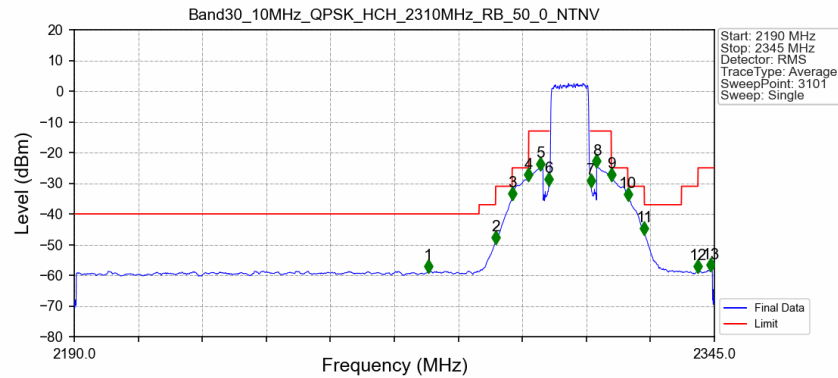
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2190        | 2288       | 1         | CHP    | 1          | 2235.800   | -58.28      | -40         | Pass   |
| 2288        | 2292       | 1         | CHP    | 2          | 2292.000   | -49.54      | -37         | Pass   |
| 2292        | 2296       | 1         | CHP    | 3          | 2296.000   | -35.12      | -31         | Pass   |
| 2296        | 2300       | 1         | CHP    | 4          | 2299.950   | -27.86      | -25         | Pass   |
| 2300        | 2304       | 1         | CHP    | 5          | 2303.300   | -24.85      | -13         | Pass   |
| 2304        | 2305       | 0.103     | CHP    | 6          | 2304.950   | -32.86      | -13         | Pass   |
| 2305        | 2315       | 0.103     | CHP    | /          | /          | /           | /           | /      |
| 2315        | 2316       | 0.103     | CHP    | 7          | 2315.050   | -29.63      | -13         | Pass   |
| 2316        | 2320       | 1         | CHP    | 8          | 2316.500   | -24.78      | -13         | Pass   |
| 2320        | 2324       | 1         | CHP    | 9          | 2320.050   | -28.72      | -25         | Pass   |
| 2324        | 2328       | 1         | CHP    | 10         | 2324.050   | -33.98      | -31         | Pass   |
| 2328        | 2337       | 1         | CHP    | 11         | 2328.050   | -46.62      | -37         | Pass   |
| 2337        | 2341       | 1         | CHP    | 12         | 2340.050   | -58.42      | -31         | Pass   |
| 2341        | 2345       | 1         | CHP    | 13         | 2342.050   | -58.65      | -25         | Pass   |

# Band30 10MHz QPSK HCH 2310MHz RB 1 49 NTV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2190        | 2288       | 1         | CHP    | 1          | 2270.020   | -56.65      | -40         | Pass   |
| 2288        | 2292       | 1         | CHP    | 2          | 2288.900   | -56.83      | -37         | Pass   |
| 2292        | 2296       | 1         | CHP    | 3          | 2293.350   | -56.62      | -31         | Pass   |
| 2296        | 2300       | 1         | CHP    | 4          | 2299.130   | -56.48      | -25         | Pass   |
| 2300        | 2304       | 1         | CHP    | 5          | 2301.590   | -55.31      | -13         | Pass   |
| 2304        | 2305       | 0.01      | /      | 6          | 2304.320   | -70.39      | -13         | Pass   |
| 2305        | 2315       | 0.01      | /      | /          | /          | /           | /           | /      |
| 2315        | 2316       | 0.01      | /      | 7          | 2315.005   | -40.47      | -13         | Pass   |
| 2316        | 2320       | 1         | CHP    | 8          | 2316.500   | -43.63      | -13         | Pass   |
| 2320        | 2324       | 1         | CHP    | 9          | 2320.005   | -53.00      | -25         | Pass   |
| 2324        | 2328       | 1         | CHP    | 10         | 2324.800   | -56.06      | -31         | Pass   |
| 2328        | 2337       | 1         | CHP    | 11         | 2333.620   | -56.32      | -37         | Pass   |
| 2337        | 2341       | 1         | CHP    | 12         | 2340.760   | -56.42      | -31         | Pass   |
| 2341        | 2345       | 1         | CHP    | 13         | 2343.960   | -56.42      | -25         | Pass   |

# Band30 10MHz QPSK HCH 2310MHz RB 50 0 NTV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2190        | 2288       | 1         | CHP    | 1          | 2275.750   | -58.55      | -40         | Pass   |
| 2288        | 2292       | 1         | CHP    | 2          | 2292.000   | -49.20      | -37         | Pass   |
| 2292        | 2296       | 1         | CHP    | 3          | 2296.000   | -34.94      | -31         | Pass   |
| 2296        | 2300       | 1         | CHP    | 4          | 2300.000   | -28.84      | -25         | Pass   |
| 2300        | 2304       | 1         | CHP    | 5          | 2302.800   | -25.17      | -13         | Pass   |
| 2304        | 2305       | 0.103     | CHP    | 6          | 2304.950   | -30.24      | -13         | Pass   |
| 2305        | 2315       | 0.103     | CHP    | /          | /          | /           | /           | /      |
| 2315        | 2316       | 0.103     | CHP    | 7          | 2315.050   | -30.63      | -13         | Pass   |
| 2316        | 2320       | 1         | CHP    | 8          | 2316.500   | -24.38      | -13         | Pass   |
| 2320        | 2324       | 1         | CHP    | 9          | 2320.050   | -28.66      | -25         | Pass   |
| 2324        | 2328       | 1         | CHP    | 10         | 2324.050   | -35.07      | -31         | Pass   |
| 2328        | 2337       | 1         | CHP    | 11         | 2328.050   | -46.27      | -37         | Pass   |
| 2337        | 2341       | 1         | CHP    | 12         | 2341.000   | -58.58      | -31         | Pass   |
| 2341        | 2345       | 1         | CHP    | 13         | 2344.150   | -58.20      | -25         | Pass   |

## 6. Field Strength of Spurious Radiation

| LTE Band 30-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 |
| 4611.0                                                               | -65.01     | -40         | -25.01          | -70.17           | 4.4             | 9.56               | Horizontal         | Pass   |
| 6916.5                                                               | -61.27     | -40         | -21.27          | -67.38           | 4.91            | 11.02              | Horizontal         | Pass   |
| 9222.0                                                               | -57.73     | -40         | -17.73          | -65.71           | 5.24            | 13.22              | Horizontal         | Pass   |
| 4611.0                                                               | -64.81     | -40         | -24.81          | -69.97           | 4.4             | 9.56               | Vertical           | Pass   |
| 6916.5                                                               | -61.2      | -40         | -21.2           | -67.31           | 4.91            | 11.02              | Vertical           | Pass   |
| 9222.0                                                               | -57.09     | -40         | -17.09          | -65.07           | 5.24            | 13.22              | Vertical           | Pass   |

| LTE Band 30-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 |
| 4610.5                                                           | -64.63     | -40         | -24.63          | -69.79           | 4.4             | 9.56               | Horizontal         | Pass   |
| 6915.75                                                          | -61.14     | -40         | -21.14          | -67.25           | 4.91            | 11.02              | Horizontal         | Pass   |
| 9221.0                                                           | -57.55     | -40         | -17.55          | -65.53           | 5.24            | 13.22              | Horizontal         | Pass   |
| 4610.5                                                           | -64.72     | -40         | -24.72          | -69.88           | 4.4             | 9.56               | Vertical           | Pass   |
| 6915.75                                                          | -61.04     | -40         | -21.04          | -67.15           | 4.91            | 11.02              | Vertical           | Pass   |
| 9221.0                                                           | -57.2      | -40         | -17.2           | -65.18           | 5.24            | 13.22              | Vertical           | Pass   |

| LTE Band 30-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 |
| 4615.5                                                              | -64.87     | -40         | -24.87          | -70.04           | 4.4             | 9.57               | Horizontal         | Pass   |
| 6923.25                                                             | -61.27     | -40         | -21.27          | -67.39           | 4.91            | 11.03              | Horizontal         | Pass   |
| 9231.0                                                              | -57.48     | -40         | -17.48          | -65.46           | 5.24            | 13.22              | Horizontal         | Pass   |
| 4615.5                                                              | -64.65     | -40         | -24.65          | -69.82           | 4.4             | 9.57               | Vertical           | Pass   |
| 6923.25                                                             | -60.87     | -40         | -20.87          | -66.99           | 4.91            | 11.03              | Vertical           | Pass   |
| 9231.0                                                              | -57.22     | -40         | -17.22          | -65.2            | 5.24            | 13.22              | Vertical           | Pass   |

| LTE Band 30-High 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 |
| 4620.5                                                            | -64.85     | -40         | -24.85          | -70.03           | 4.4             | 9.58               | Horizontal         | Pass   |
| 6930.75                                                           | -60.83     | -40         | -20.83          | -66.96           | 4.91            | 11.04              | Horizontal         | Pass   |
| 9241.0                                                            | -57.17     | -40         | -17.17          | -65.14           | 5.25            | 13.22              | Horizontal         | Pass   |
| 4620.5                                                            | -64.88     | -40         | -24.88          | -70.06           | 4.4             | 9.58               | Vertical           | Pass   |
| 6930.75                                                           | -61.57     | -40         | -21.57          | -67.7            | 4.91            | 11.04              | Vertical           | Pass   |
| 9241.0                                                            | -57.08     | -40         | -17.08          | -65.05           | 5.25            | 13.22              | Vertical           | Pass   |