

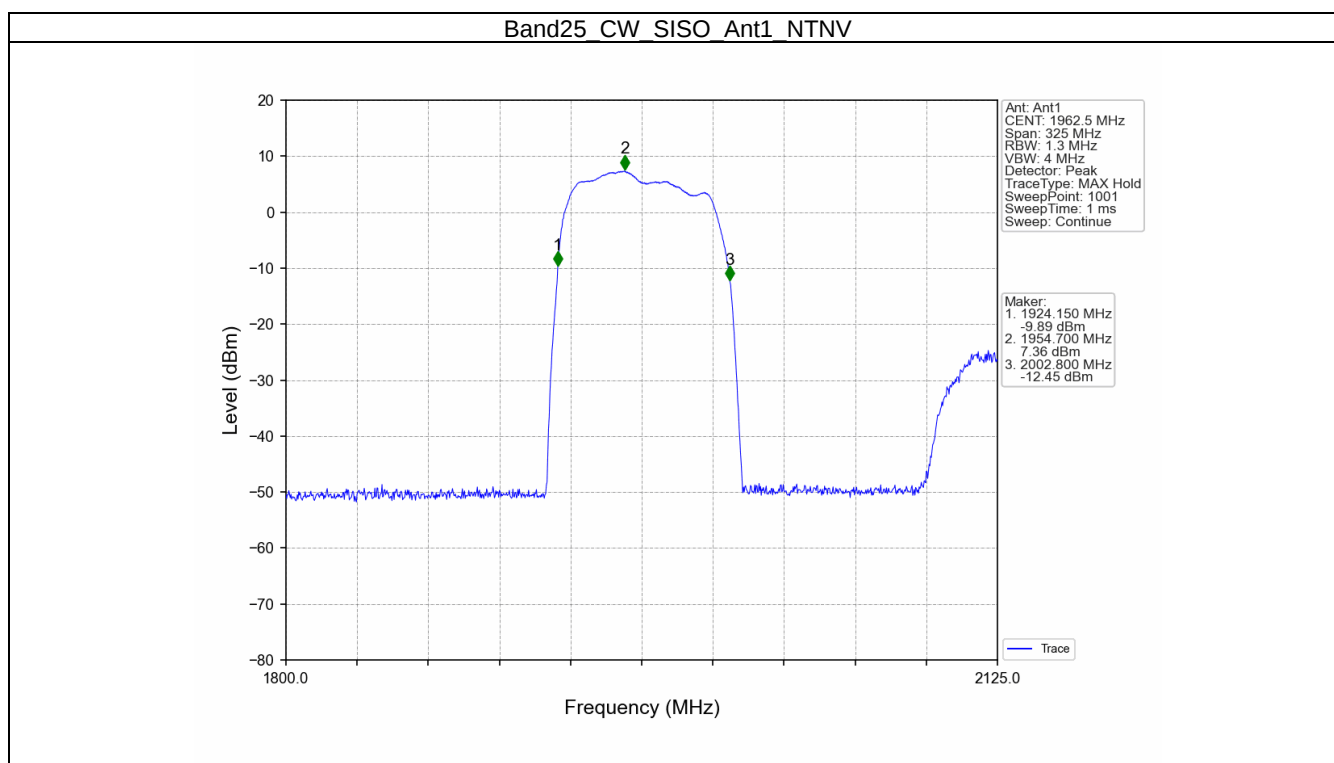
## 1. Out of band rejection

### 1.1 Band25

#### 1.1.1 Test Result

| Band: 25 / NTNV |                             |         |     |          |          |          |         |
|-----------------|-----------------------------|---------|-----|----------|----------|----------|---------|
| Signal          | Sweep Frequency Range (MHz) | TX Type | ANT | F0 (MHz) | FL (MHz) | FH (MHz) | Verdict |
| CW              | 1800 - 2125                 | SISO    | 1   | 1954.700 | 1924.150 | 2002.800 | Pass    |

#### 1.1.2 Test Graph





## 2. AGC threshold

### 2.1 Band25

#### 2.1.1 Test Result

| Band: 25 / NTNV |                 |         |     |                     |         |
|-----------------|-----------------|---------|-----|---------------------|---------|
| Signal          | Frequency (MHz) | TX Type | ANT | AGC Threshold (dBm) | Verdict |
| GMSK<br>0.2MHz  | 1954.7          | SISO    | 1   | -3.20               | Pass    |
| AWGN<br>5MHz    | 1954.7          | SISO    | 1   | -3.20               | Pass    |

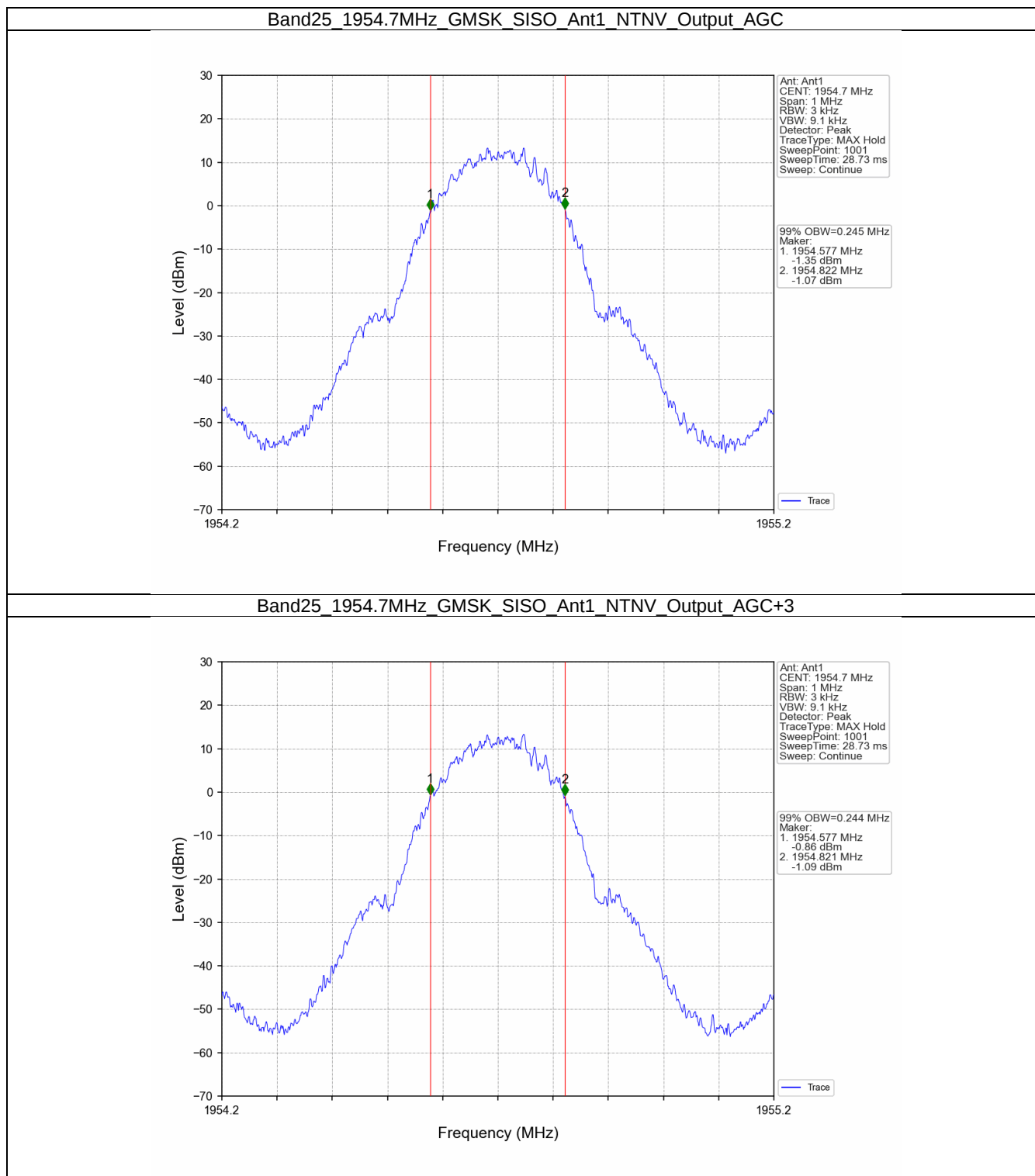
### 3. Input-versus-output signal comparison

#### 3.1 Band25\_OBW

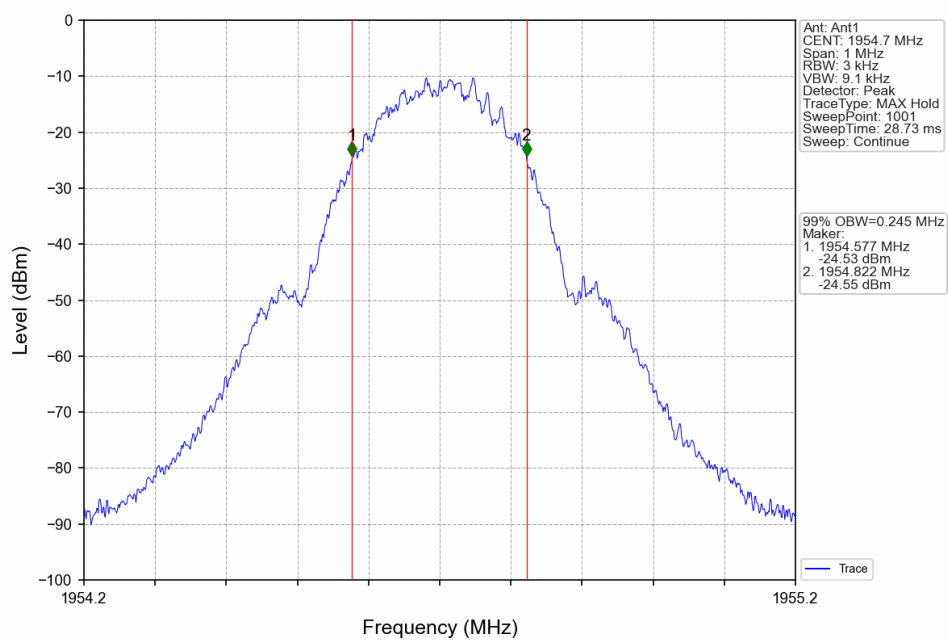
##### 3.1.1 Test Result

| Band: 25 / NTNV |             |                 |         |     |               |       |         |
|-----------------|-------------|-----------------|---------|-----|---------------|-------|---------|
| Signal          |             |                 | TX Type | ANT | 99% OBW (MHz) |       | Verdict |
| Type            | Level (dBm) | Frequency (MHz) |         |     | Output        | Input |         |
| GMSK<br>0.2MHz  | -0.2        | 1954.7          | SISO    | 1   | 0.245         | 0.245 | Pass    |
|                 | -3.2        | 1954.7          | SISO    | 1   | 0.244         | 0.244 | Pass    |
| AWGN<br>5MHz    | -0.2        | 1954.7          | SISO    | 1   | 4.536         | 4.549 | Pass    |
|                 | -3.2        | 1954.7          | SISO    | 1   | 4.540         | 4.546 | Pass    |

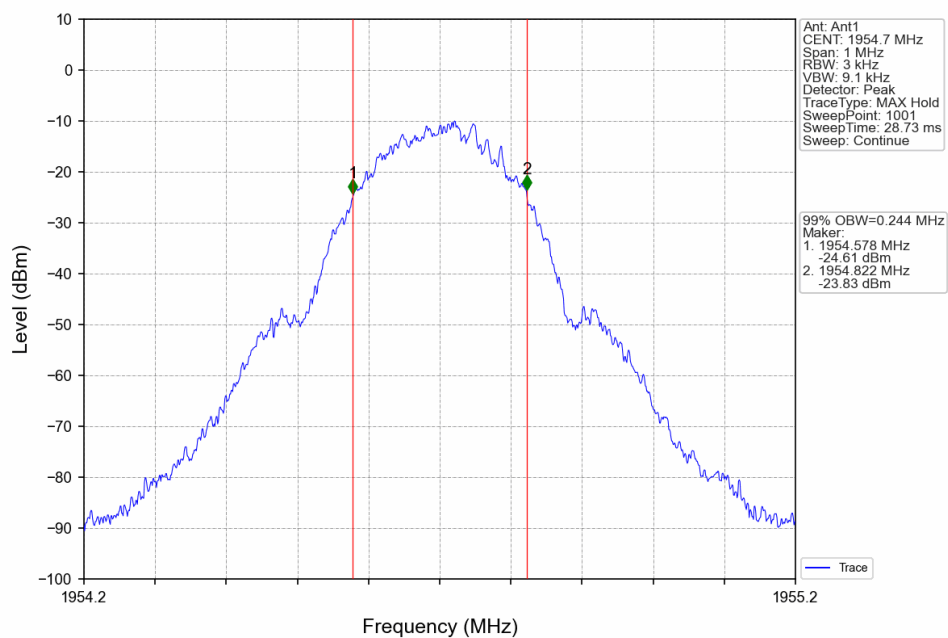
## 3.1.2 Test Graph



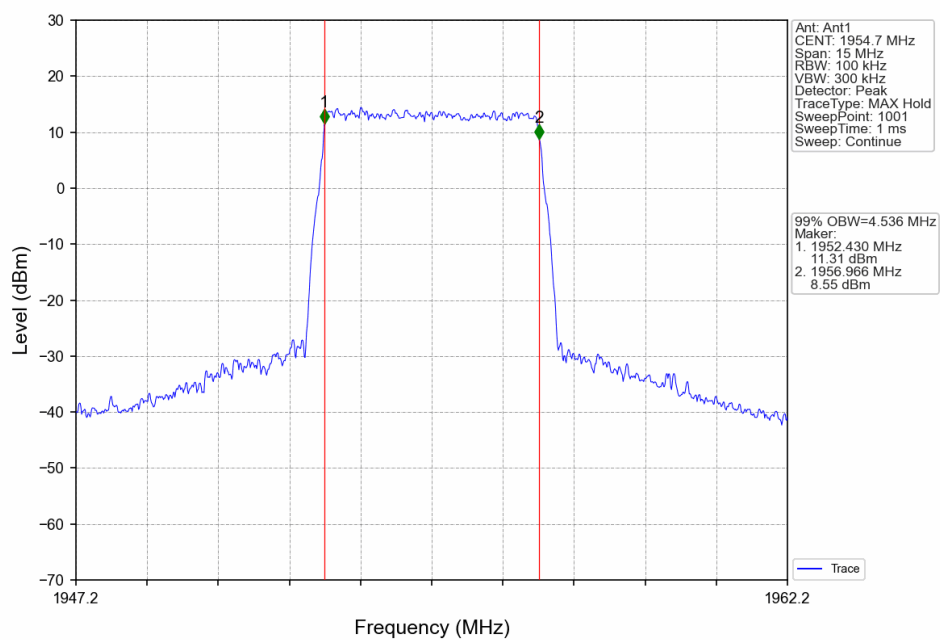
Band25\_1954.7MHz\_GMSK\_SISO\_Ant1\_NTNV\_Input\_AGC



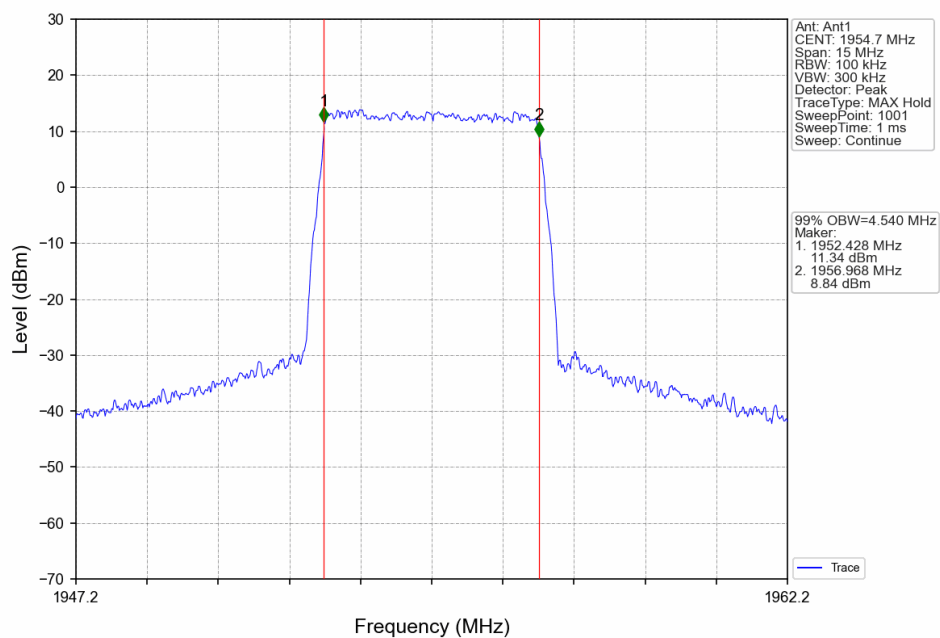
Band25\_1954.7MHz\_GMSK\_SISO\_Ant1\_NTNV\_Input\_AGC+3



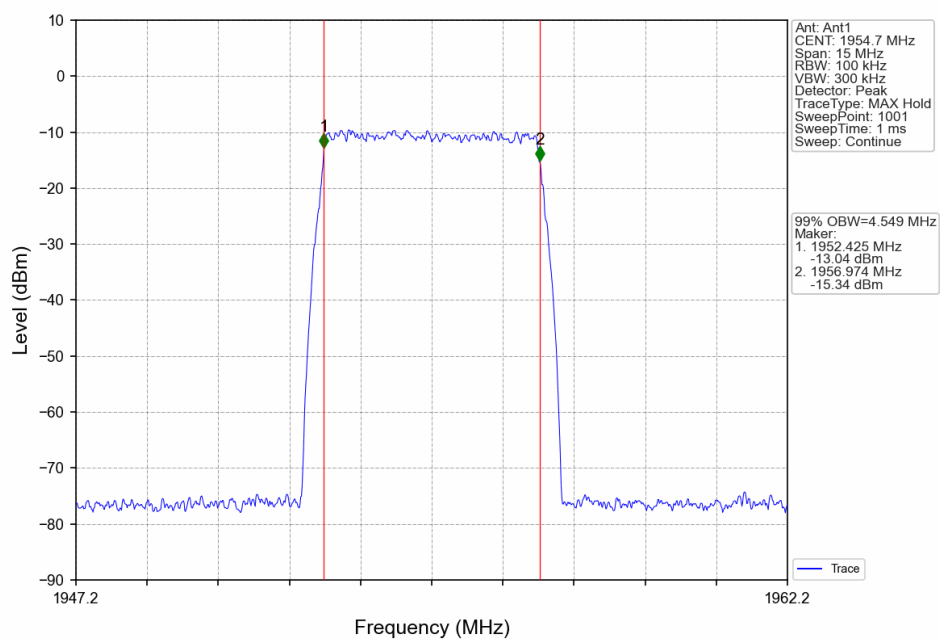
Band25\_1954.7MHz\_AWGN\_SISO\_Ant1\_NTNV\_Output\_AGC



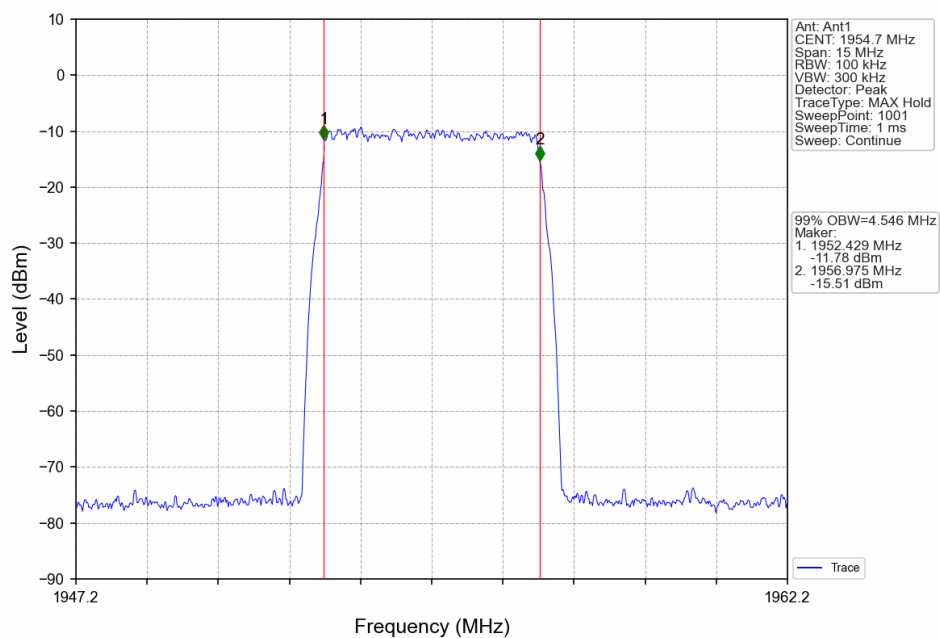
Band25\_1954.7MHz\_AWGN\_SISO\_Ant1\_NTNV\_Output\_AGC+3



Band25\_1954.7MHz\_AWGN\_SISO\_Ant1\_NTNV\_Input\_AGC



Band25\_1954.7MHz\_AWGN\_SISO\_Ant1\_NTNV\_Input\_AGC+3

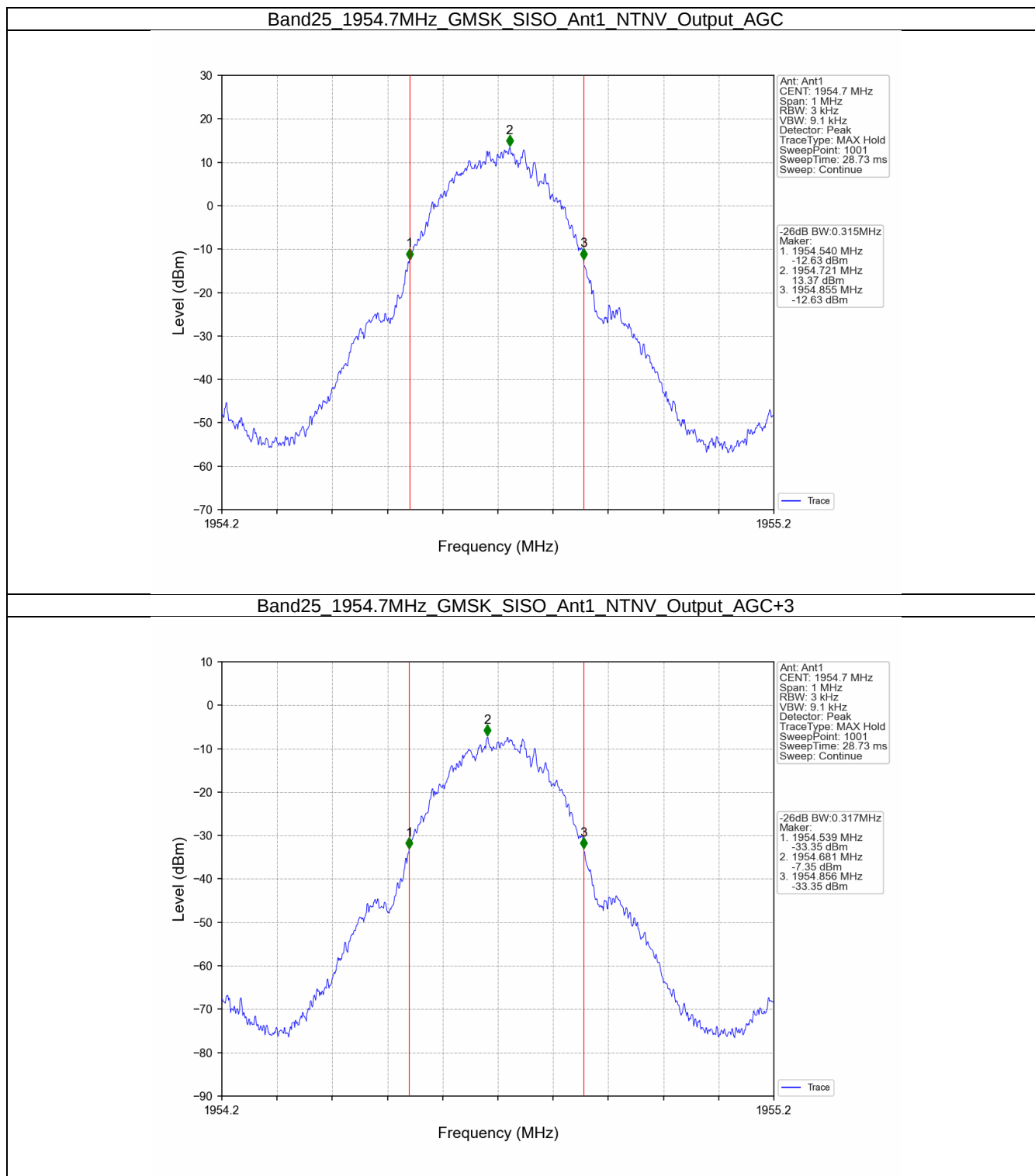


## 3.2 Band25\_EBW

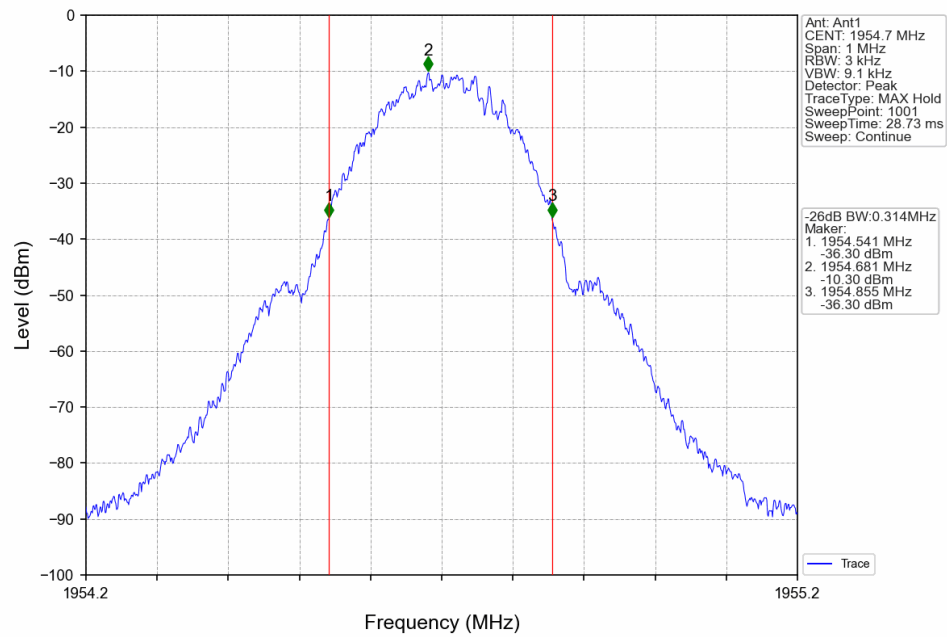
### 3.2.1 Test Result

| Band: 25 / NTNV |             |                 |         |     |                |       |         |
|-----------------|-------------|-----------------|---------|-----|----------------|-------|---------|
| Signal          |             |                 | TX Type | ANT | 26dB EBW (MHz) |       | Verdict |
| Type            | Level (dBm) | Frequency (MHz) |         |     | Output         | Input |         |
| GMSK<br>0.2MHz  | -0.2        | 1954.7          | SISO    | 1   | 0.315          | 0.314 | Pass    |
|                 | -3.2        | 1954.7          | SISO    | 1   | 0.317          | 0.318 | Pass    |
| AWGN<br>5MHz    | -0.2        | 1954.7          | SISO    | 1   | 5.059          | 5.060 | Pass    |
|                 | -3.2        | 1954.7          | SISO    | 1   | 5.055          | 5.062 | Pass    |

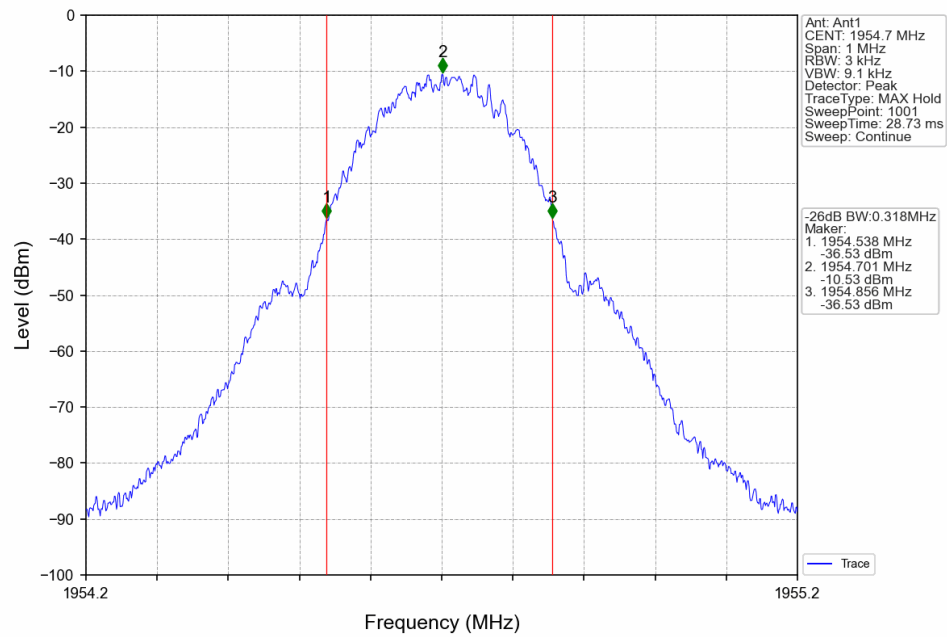
## 3.2.2 Test Graph



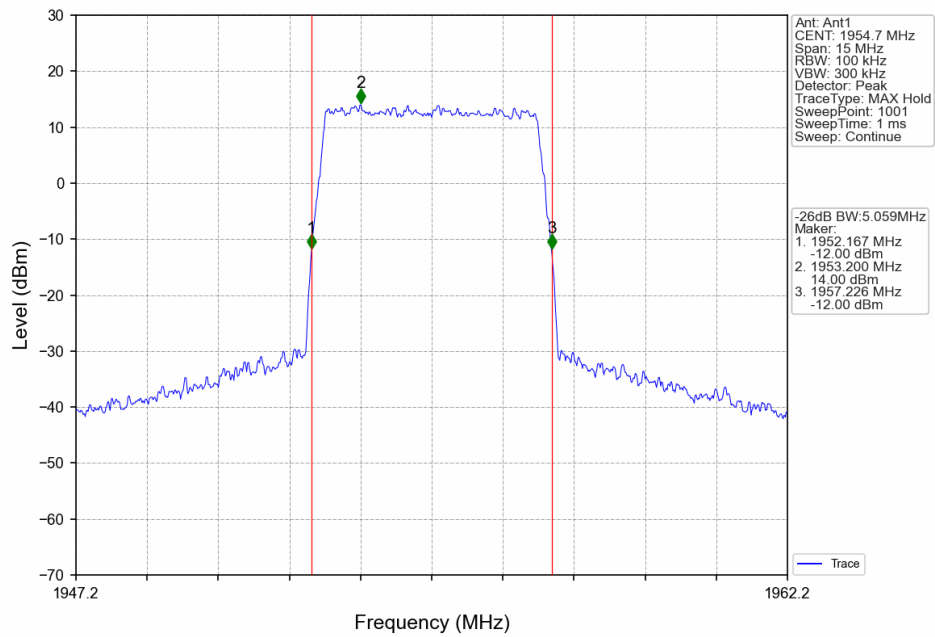
Band25\_1954.7MHz\_GMSK\_SISO\_Ant1\_NTNV\_Input\_AGC



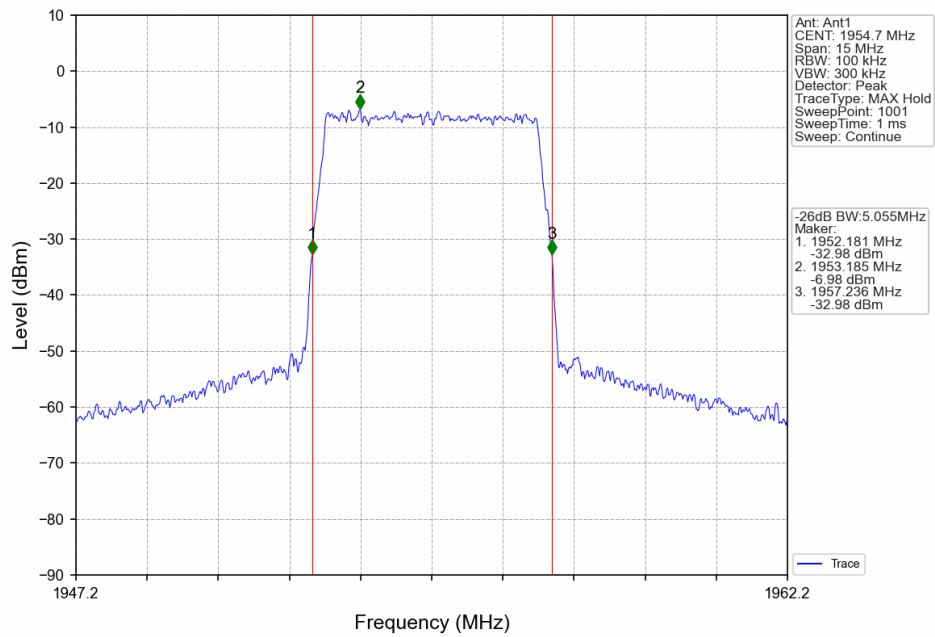
Band25\_1954.7MHz\_GMSK\_SISO\_Ant1\_NTNV\_Input\_AGC+3



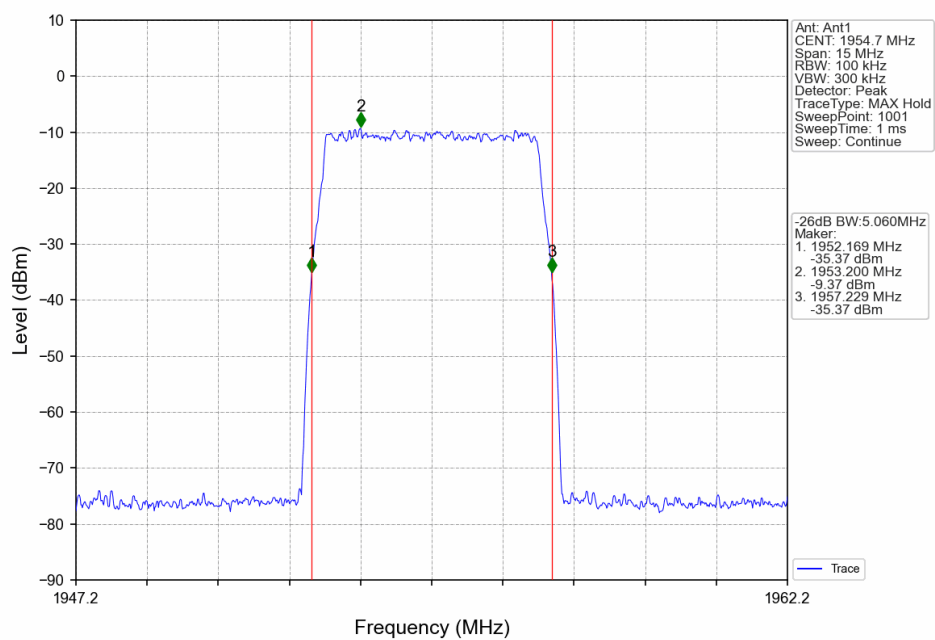
Band25\_1954.7MHz\_AWGN\_SISO\_Ant1\_NTNV\_Output\_AGC



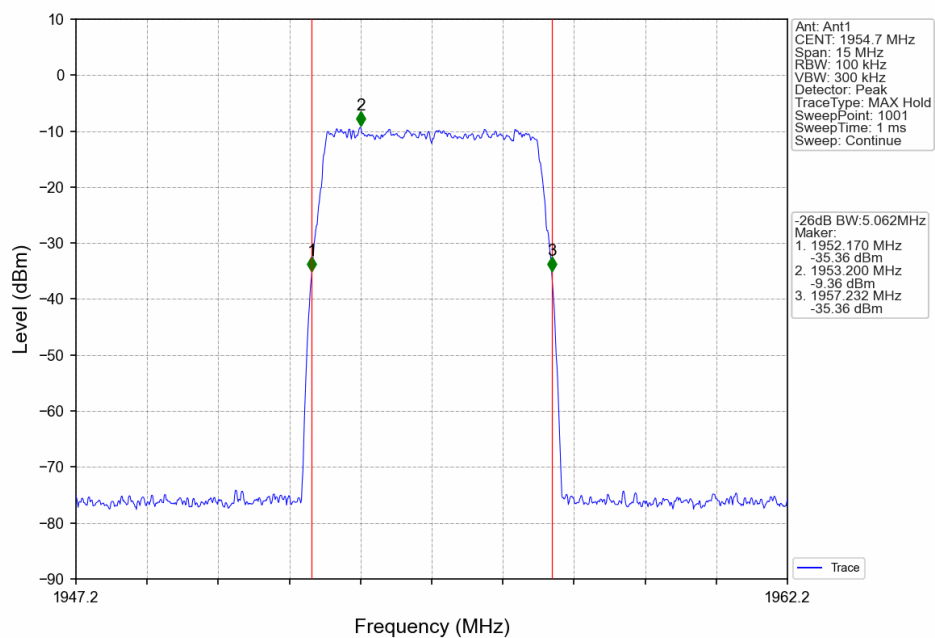
Band25\_1954.7MHz\_AWGN\_SISO\_Ant1\_NTNV\_Output\_AGC+3



Band25\_1954.7MHz\_AWGN\_SISO\_Ant1\_NTNV\_Input\_AGC



Band25\_1954.7MHz\_AWGN\_SISO\_Ant1\_NTNV\_Input\_AGC+3



## 4. Input/output power and amplifier/booster gain

### 4.1 Band25\_EIRP

#### 4.1.1 Test Result

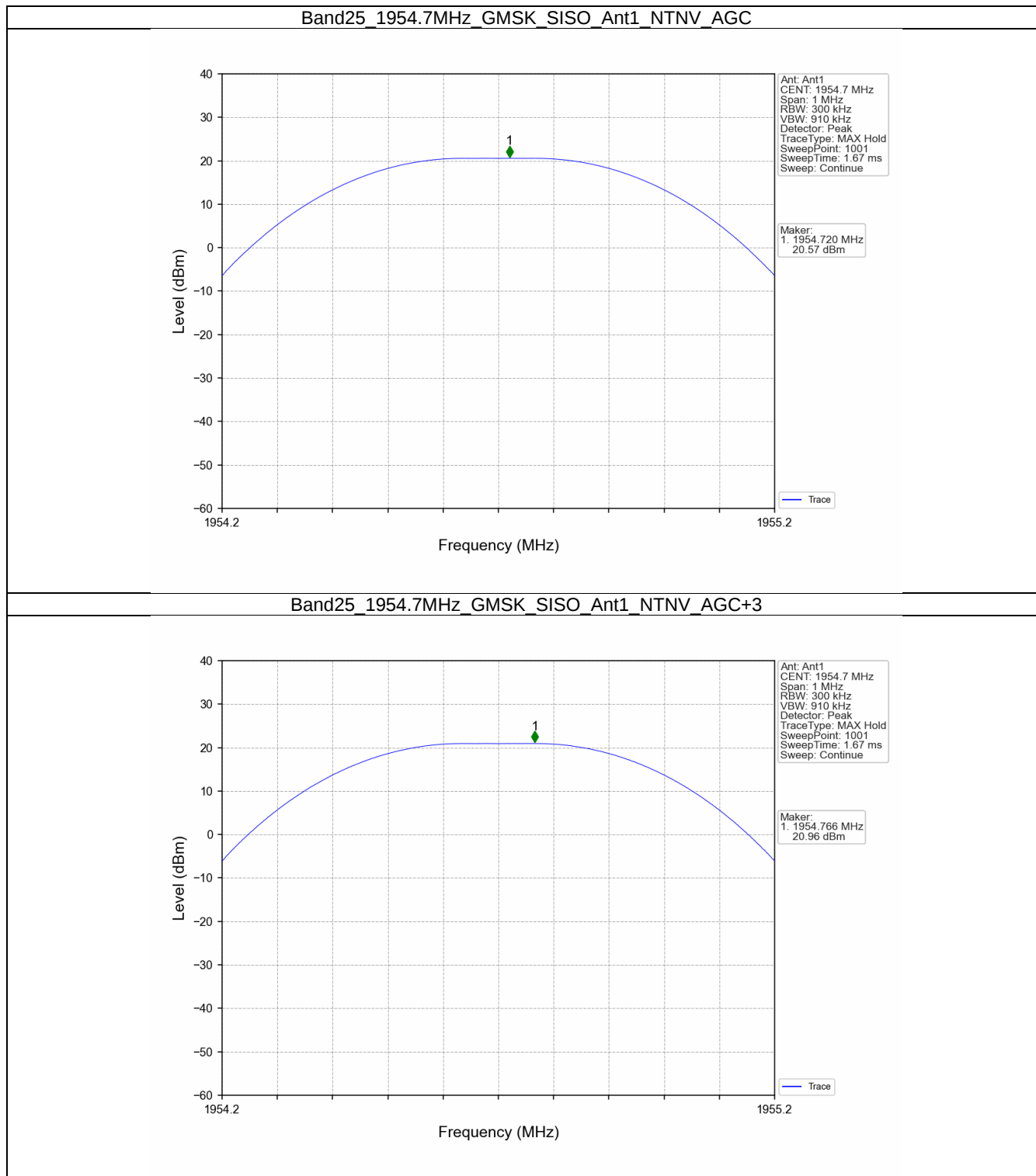
| Band: 25 / NTNV |             |                 |         |     |                           |       |                |         |                   |         |
|-----------------|-------------|-----------------|---------|-----|---------------------------|-------|----------------|---------|-------------------|---------|
| Signal          |             |                 | TX Type | ANT | Conducted Power (dBm/MHz) |       | EIRP (dBm/MHz) |         | Booster Gain (dB) | Verdict |
| Type            | Level (dBm) | Frequency (MHz) |         |     | Output                    | Input | Result         | Limit   |                   |         |
| GMSK<br>0.2MHz  | -3.2        | 1954.7          | SISO    | 1   | 20.57                     | -3.53 | 27.57          | <=62.15 | 24.10             | Pass    |
|                 | -0.2        | 1954.7          | SISO    | 1   | 20.96                     | -0.51 | 27.96          | <=62.15 | /                 | Pass    |
| AWGN<br>5MHz    | -3.2        | 1954.7          | SISO    | 1   | 14.73                     | -9.72 | 21.73          | <=62.15 | 24.45             | Pass    |
|                 | -0.2        | 1954.7          | SISO    | 1   | 14.99                     | -6.58 | 21.99          | <=62.15 | /                 | Pass    |

| Band: B25 / NTNV |             |                 |                           |       |                |       |             |         |
|------------------|-------------|-----------------|---------------------------|-------|----------------|-------|-------------|---------|
| Signal           |             |                 | Conducted Power (dBm/MHz) |       | EIRP (dBm/MHz) |       | Limit (dBm) | Verdict |
| Type             | Level (dBm) | Frequency (MHz) | SISO                      | 2*2   | SISO           | 2*2   |             |         |
| GMSK<br>0.2MHz   | -3.2        | 1954.7          | 20.57                     | 23.59 | 27.57          | 30.59 | /           | Pass    |
|                  | -0.2        | 1954.7          | 20.96                     | 23.98 | 27.96          | 30.98 | /           | Pass    |
| AWGN<br>5MHz     | -3.2        | 1954.7          | 14.73                     | 17.75 | 21.73          | 24.75 | /           | Pass    |
|                  | -0.2        | 1954.7          | 14.99                     | 18.01 | 21.99          | 25.01 | /           | Pass    |

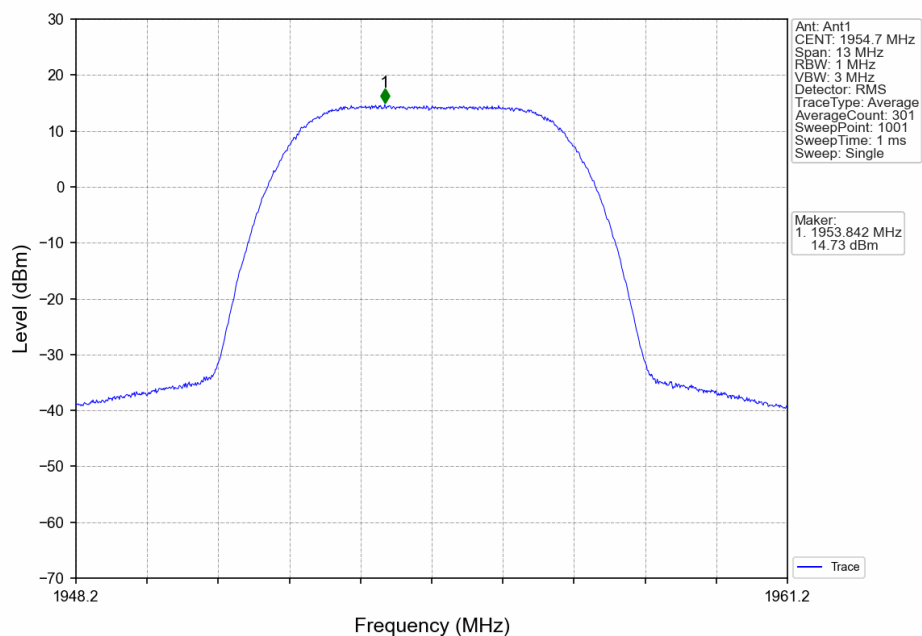
| Band: B25 / NTNV |             |                 |                          |  |            |
|------------------|-------------|-----------------|--------------------------|--|------------|
| Operation Band   | Level (dBm) | Frequency (MHz) | Total Output Power (dBm) |  | EIRP (dBm) |
| GMSK<br>0.2MHz   | -3.2        | 1954.7          | 20.75                    |  | 27.75      |
|                  | -0.2        | 1954.7          | 20.79                    |  | 27.79      |
| AWGN<br>5MHz     | -3.2        | 1954.7          | 20.83                    |  | 27.83      |
|                  | -0.2        | 1954.7          | 20.89                    |  | 27.89      |

| Band: B25 / NTNV |             |                 |                       |       |            |       |             |         |
|------------------|-------------|-----------------|-----------------------|-------|------------|-------|-------------|---------|
| Signal           |             |                 | Conducted Power (dBm) |       | EIRP (dBm) |       | Limit (dBm) | Verdict |
| Type             | Level (dBm) | Frequency (MHz) | SISO                  | 2*2   | SISO       | 2*2   |             |         |
| GMSK<br>0.2MHz   | -3.2        | 1954.7          | 20.75                 | 23.77 | 27.75      | 30.77 | /           | Pass    |
|                  | -0.2        | 1954.7          | 20.79                 | 23.81 | 27.79      | 30.81 | /           | Pass    |
| AWGN<br>5MHz     | -3.2        | 1954.7          | 20.83                 | 23.85 | 27.83      | 30.85 | /           | Pass    |
|                  | -0.2        | 1954.7          | 20.89                 | 23.91 | 27.89      | 30.91 | /           | Pass    |

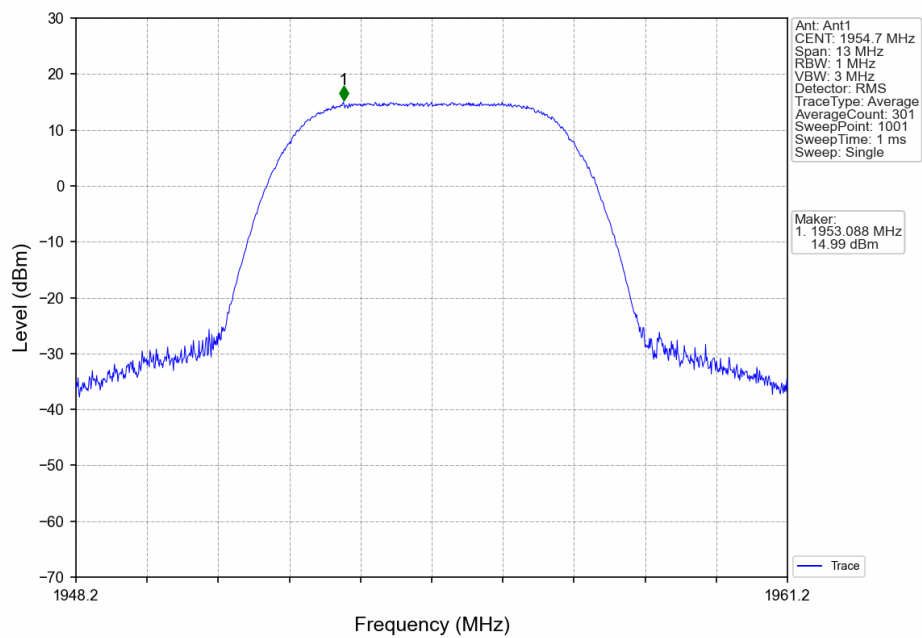
## 4.1.2 Test Graph



Band25\_1954.7MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



Band25\_1954.7MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3

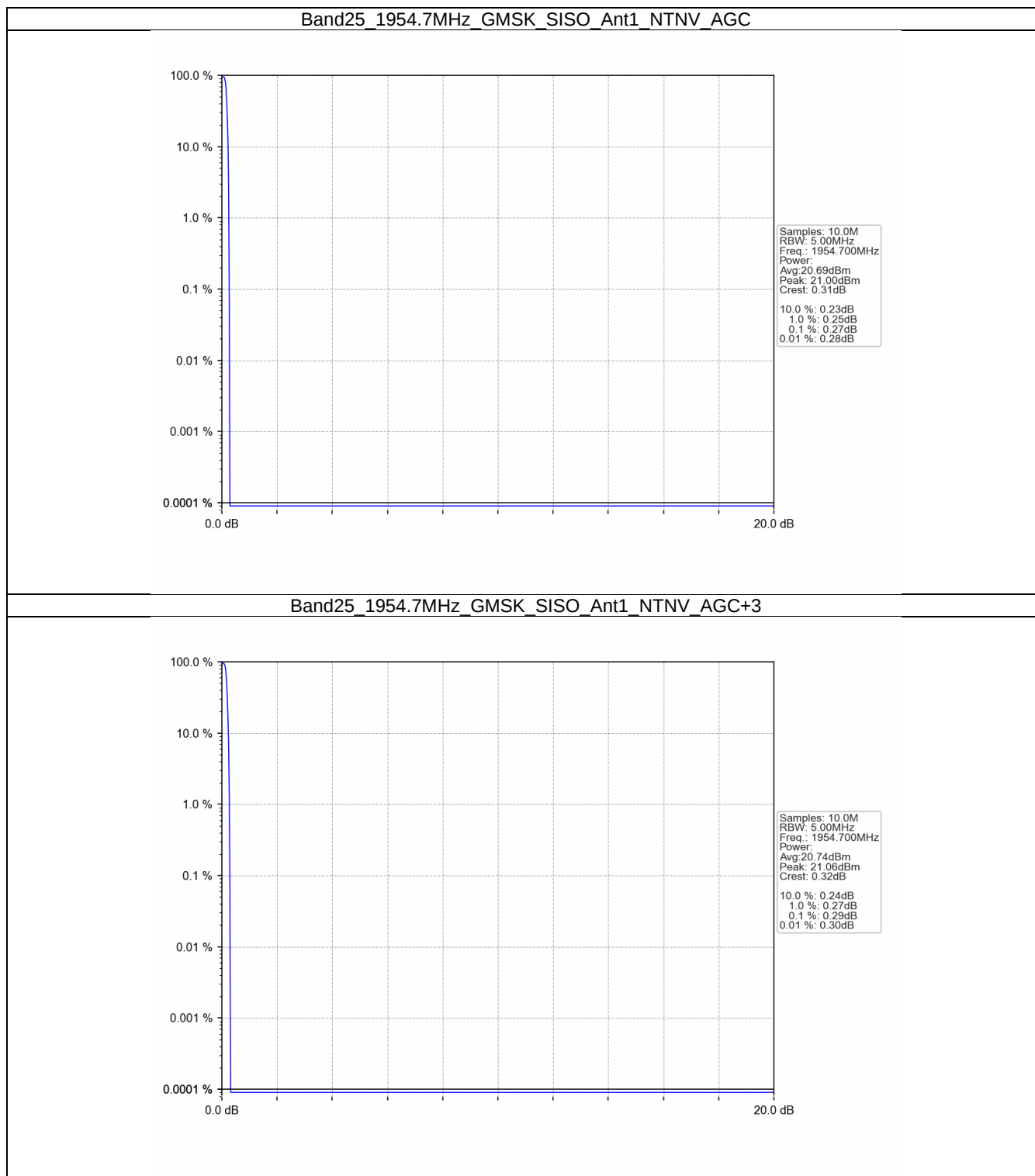


## 4.2 Band25\_PAPR

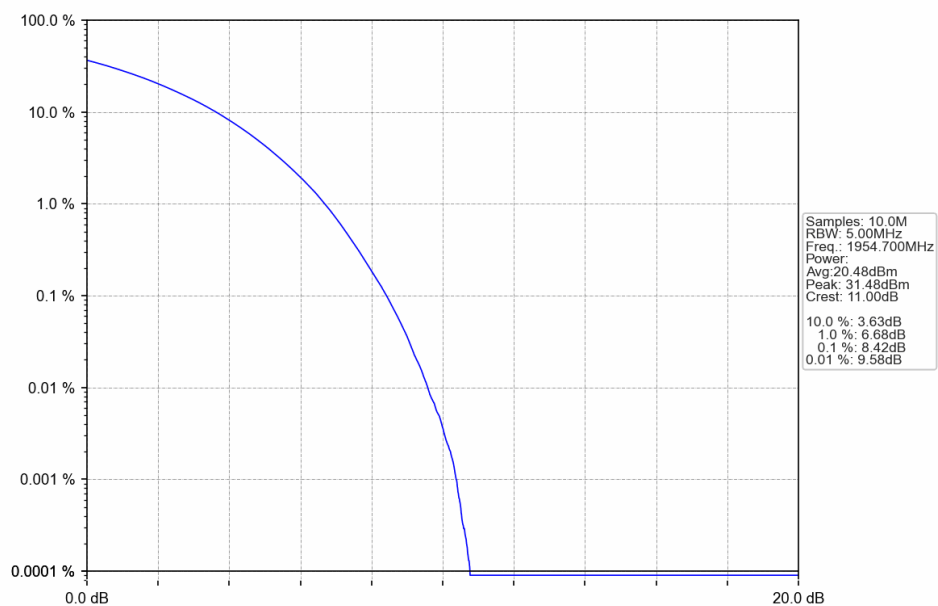
### 4.2.1 Test Result

| Band: 25 / NTNV |             |                 |         |     |           |       |         |
|-----------------|-------------|-----------------|---------|-----|-----------|-------|---------|
| Signal          |             |                 | TX Type | ANT | PAPR (dB) |       | Verdict |
| Type            | Level (dBm) | Frequency (MHz) |         |     | Result    | Limit |         |
| GMSK<br>0.2MHz  | -3.2        | 1954.7          | SISO    | 1   | 0.27      | <=13  | Pass    |
|                 | -0.2        | 1954.7          | SISO    | 1   | 0.29      | <=13  | Pass    |
| AWGN<br>5MHz    | -3.2        | 1954.7          | SISO    | 1   | 8.42      | <=13  | Pass    |
|                 | -0.2        | 1954.7          | SISO    | 1   | 8.48      | <=13  | Pass    |

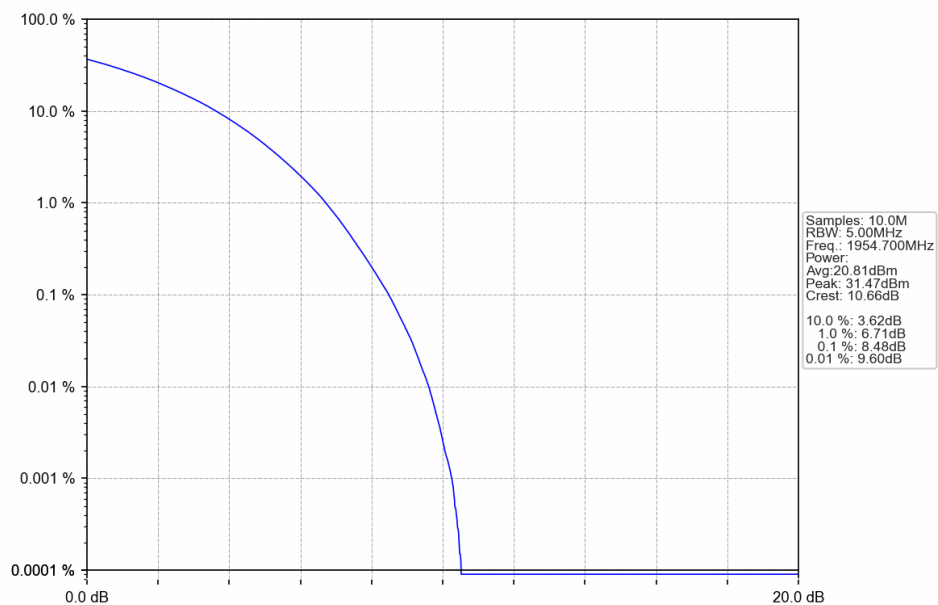
## 4.2.2 Test Graph



Band25\_1954.7MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



Band25\_1954.7MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3



## 5. Out-of-band/out-of-block (including intermodulation) emissions

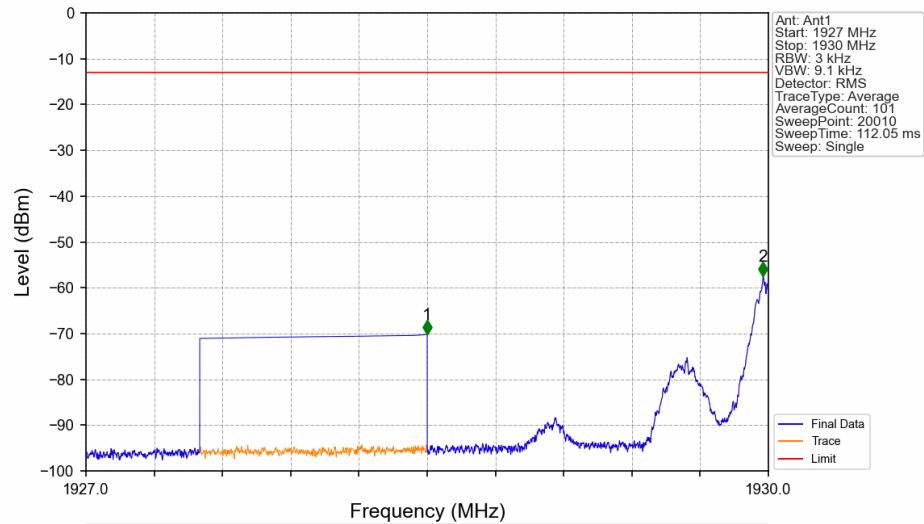
### 5.1 Band25

#### 5.1.1 Test Result

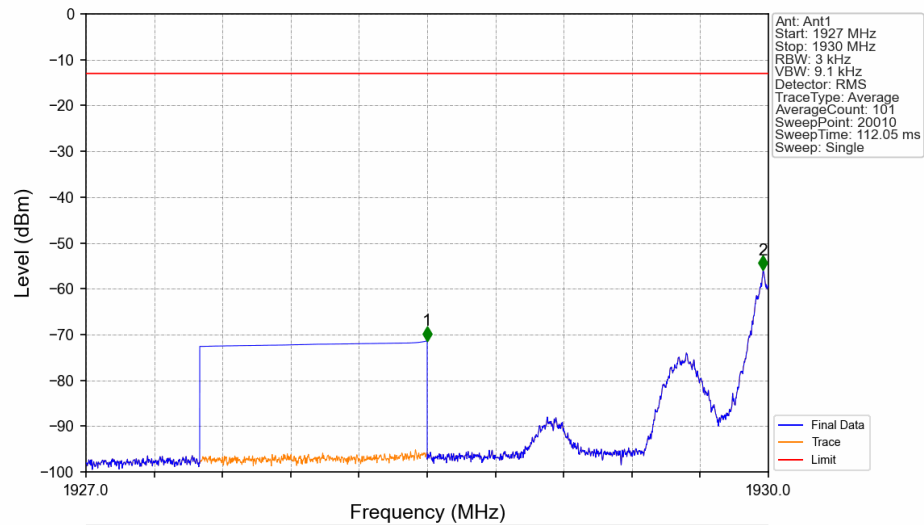
| Band: 25 / NTNV |             |             |                 |         |         |     |           |                     |         |
|-----------------|-------------|-------------|-----------------|---------|---------|-----|-----------|---------------------|---------|
| Signal          |             |             |                 | Channel | TX Type | ANT | OOB (dBm) |                     | Verdict |
| Input           | Type        | Level (dBm) | Frequency (MHz) |         |         |     | Result    | Limit               |         |
| Two             | GMSK 0.2MHz | -3.2        | 1930.2          | LCH     | SISO    | 1   | -57.50    | Refer To Test Graph | Pass    |
|                 |             | -0.2        | 1930.2          | LCH     | SISO    | 1   | -55.97    | Refer To Test Graph | Pass    |
| One             | GMSK 0.2MHz | -3.2        | 1930.2          | LCH     | SISO    | 1   | -57.70    | Refer To Test Graph | Pass    |
|                 |             | -0.2        | 1930.2          | LCH     | SISO    | 1   | -55.59    | Refer To Test Graph | Pass    |
| Two             | GMSK 0.2MHz | -3.2        | 1994.8          | HCH     | SISO    | 1   | -58.15    | Refer To Test Graph | Pass    |
|                 |             | -0.2        | 1994.8          | HCH     | SISO    | 1   | -54.76    | Refer To Test Graph | Pass    |
| One             | GMSK 0.2MHz | -3.2        | 1994.8          | HCH     | SISO    | 1   | -57.72    | Refer To Test Graph | Pass    |
|                 |             | -0.2        | 1994.8          | HCH     | SISO    | 1   | -55.51    | Refer To Test Graph | Pass    |
| Two             | AWGN 5MHz   | -3.2        | 1932.5          | LCH     | SISO    | 1   | -57.42    | Refer To Test Graph | Pass    |
|                 |             | -0.2        | 1932.5          | LCH     | SISO    | 1   | -55.12    | Refer To Test Graph | Pass    |
| One             | AWGN 5MHz   | -3.2        | 1932.5          | LCH     | SISO    | 1   | -55.72    | Refer To Test Graph | Pass    |
|                 |             | -0.2        | 1932.5          | LCH     | SISO    | 1   | -55.05    | Refer To Test Graph | Pass    |
| Two             | AWGN 5MHz   | -3.2        | 1992.5          | HCH     | SISO    | 1   | -59.94    | Refer To Test Graph | Pass    |
|                 |             | -0.2        | 1992.5          | HCH     | SISO    | 1   | -56.31    | Refer To Test Graph | Pass    |
| One             | AWGN 5MHz   | -3.2        | 1992.5          | HCH     | SISO    | 1   | -57.39    | Refer To Test Graph | Pass    |
|                 |             | -0.2        | 1992.5          | HCH     | SISO    | 1   | -54.88    | Refer To Test Graph | Pass    |

## 5.1.2 Test Graph

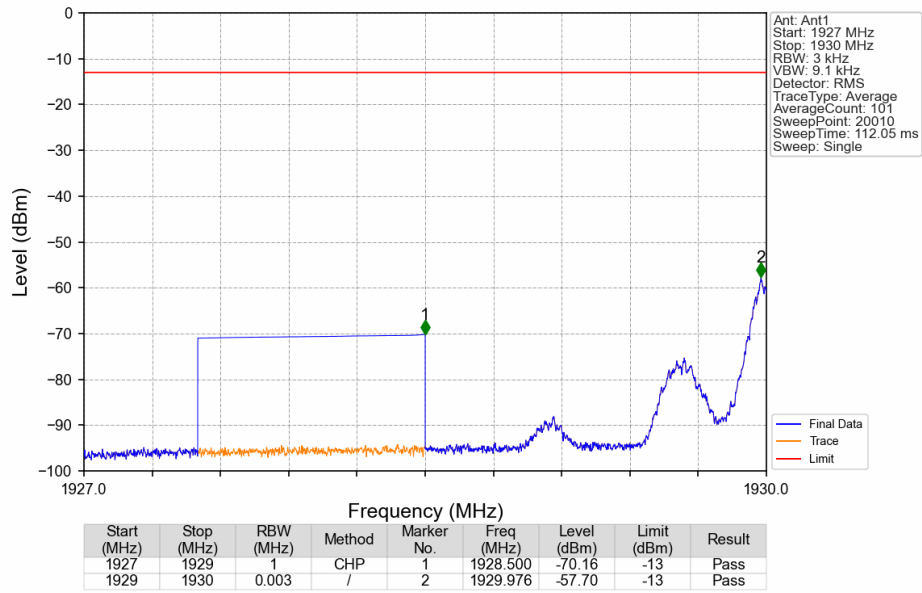
Band25\_1930.2MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



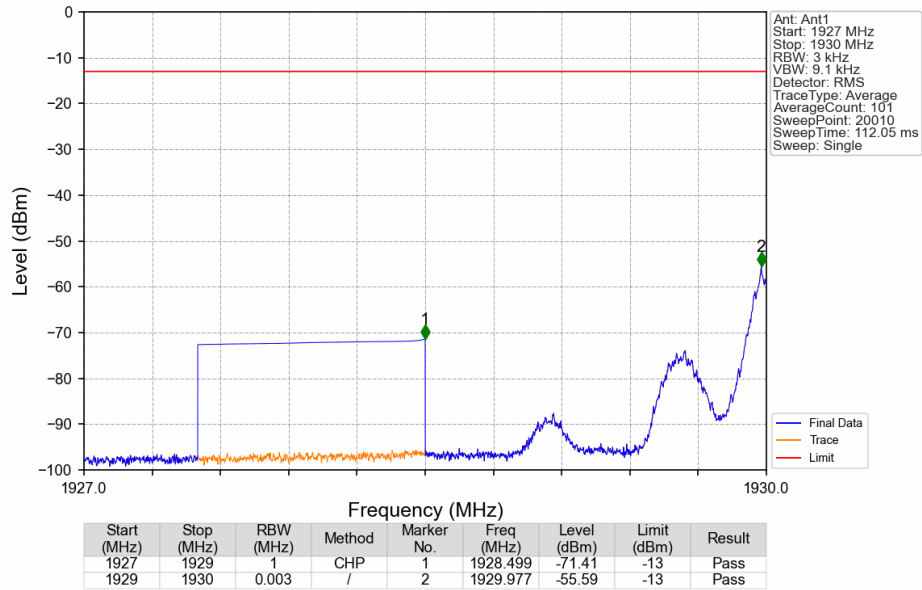
Band25\_1930.2MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3



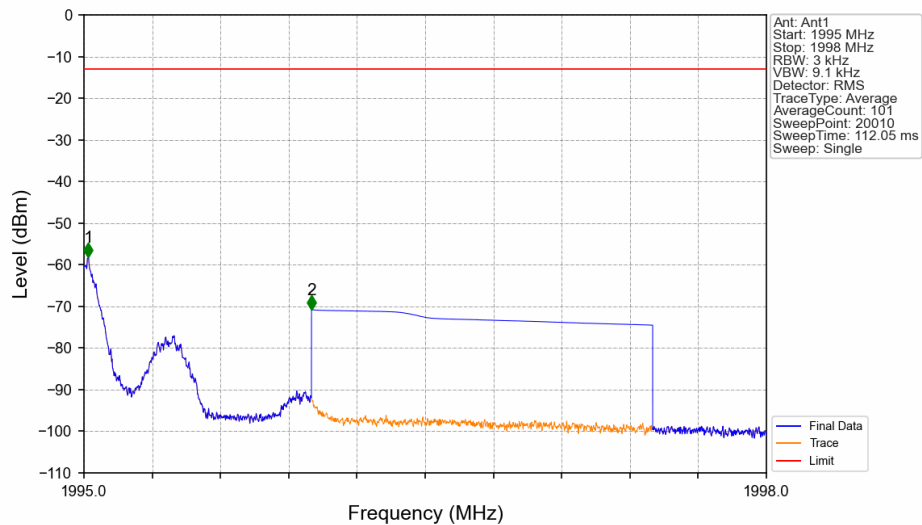
Band25\_1930.2MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



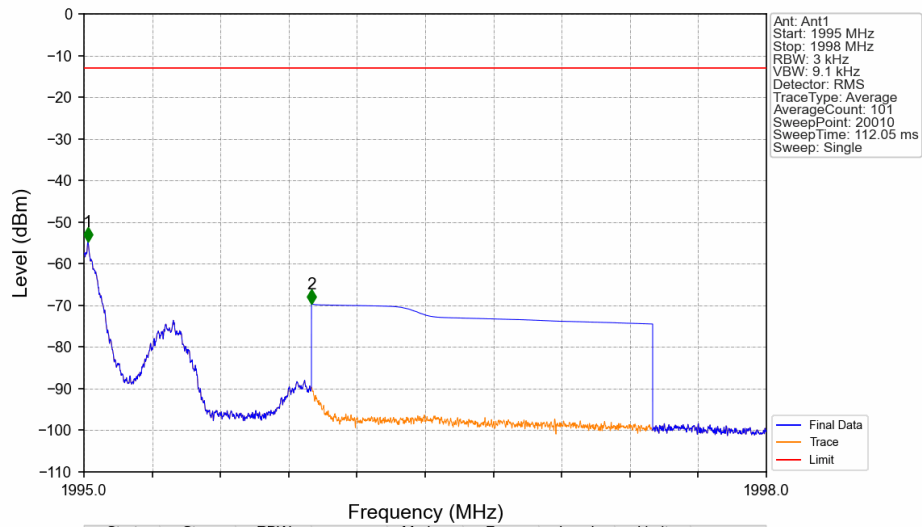
Band25\_1930.2MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3



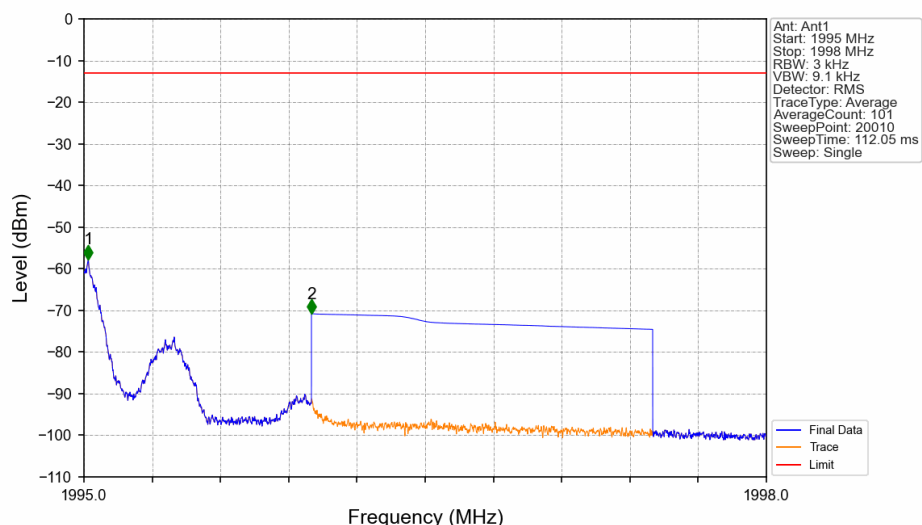
Band25\_1994.8MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



Band25\_1994.8MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3

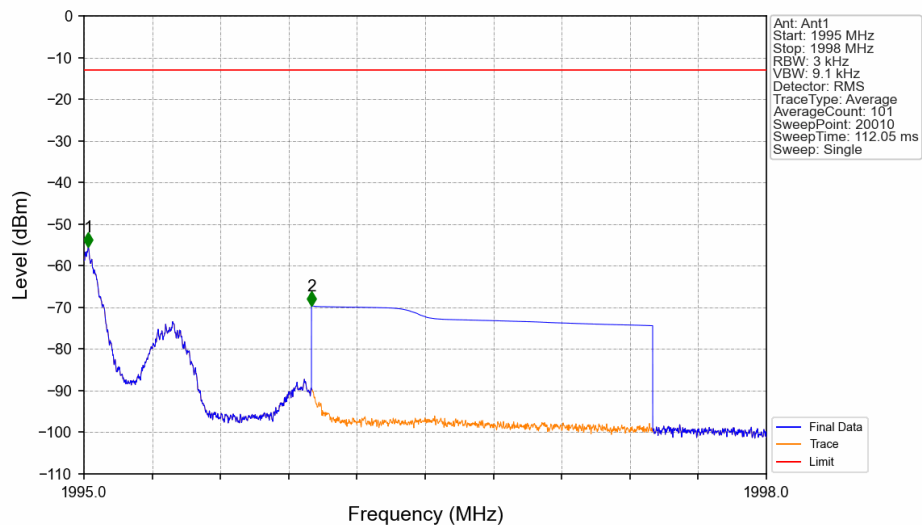


Band25\_1994.8MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



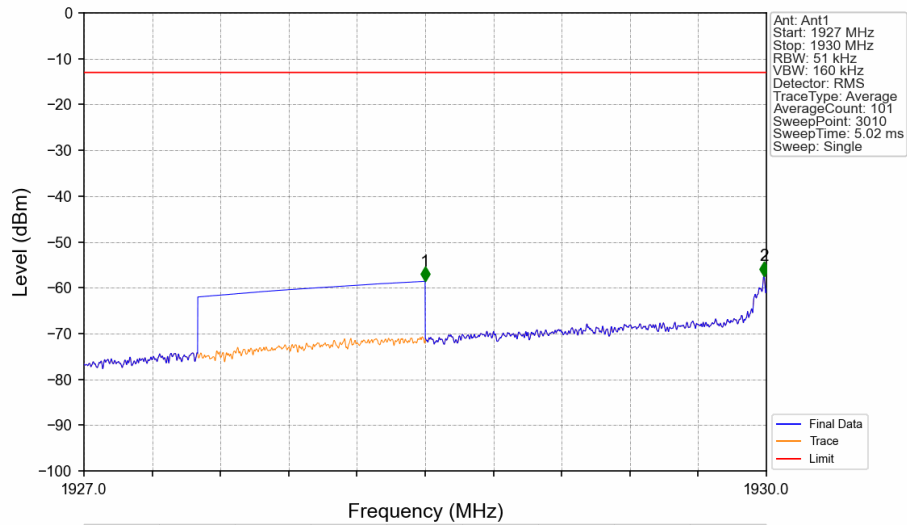
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 1995        | 1996       | 0.003     | /      | 1          | 1995.019   | -57.72      | -13         | Pass   |
| 1996        | 1998       | 1         | CHP    | 2          | 1996.000   | -70.75      | -13         | Pass   |

Band25\_1994.8MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3

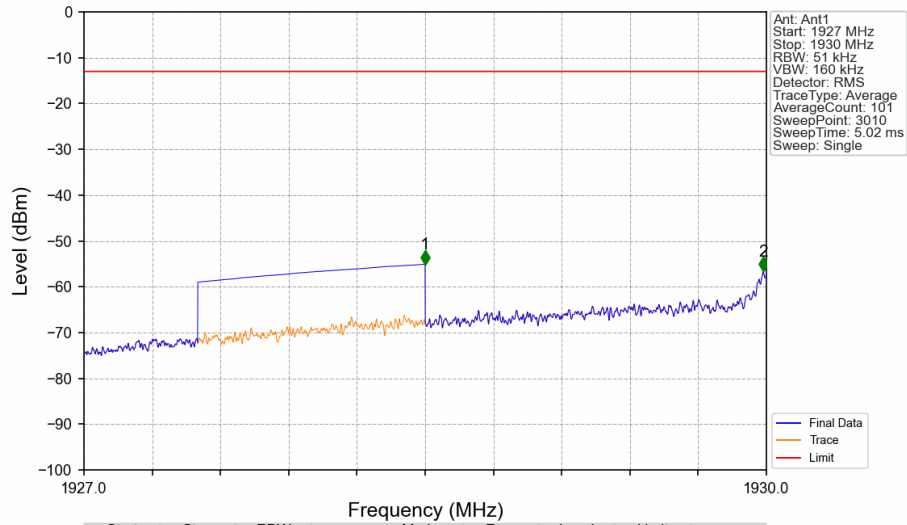


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 1995        | 1996       | 0.003     | /      | 1          | 1995.019   | -55.51      | -13         | Pass   |
| 1996        | 1998       | 1         | CHP    | 2          | 1996.000   | -69.61      | -13         | Pass   |

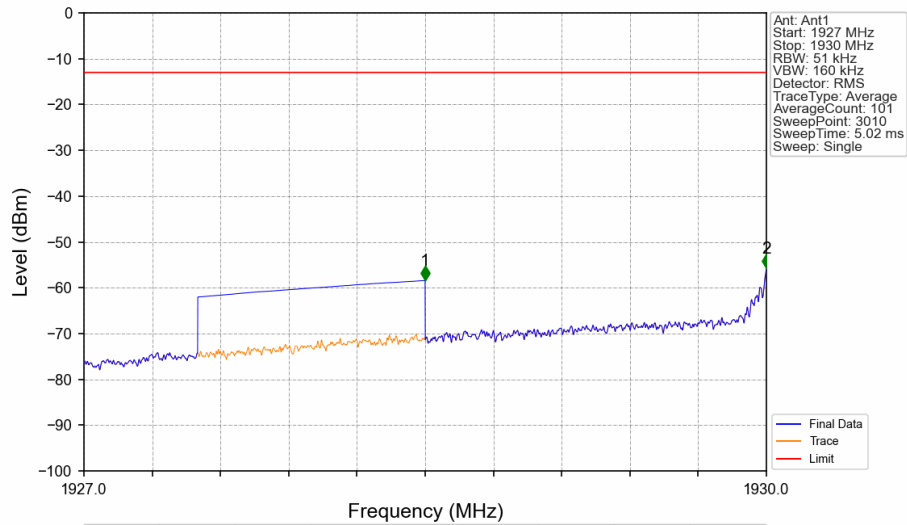
Band25\_1932.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



Band25\_1932.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3

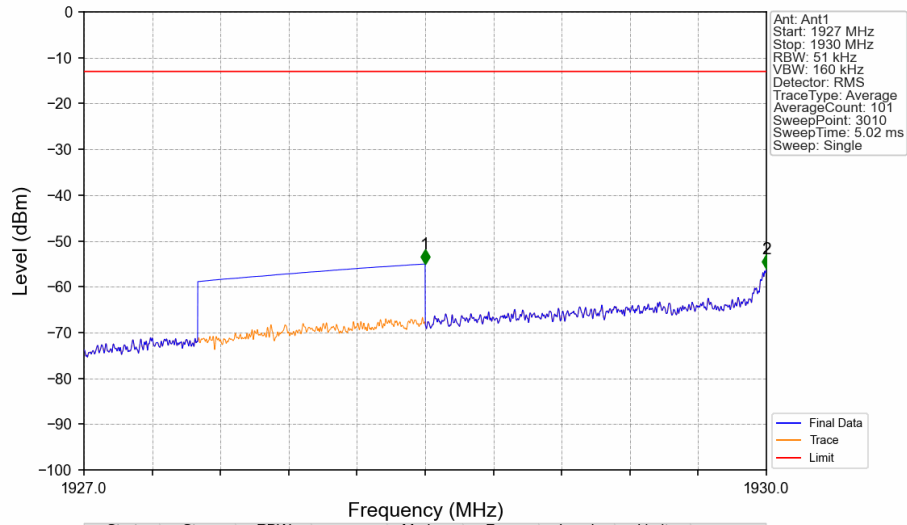


Band25\_1932.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



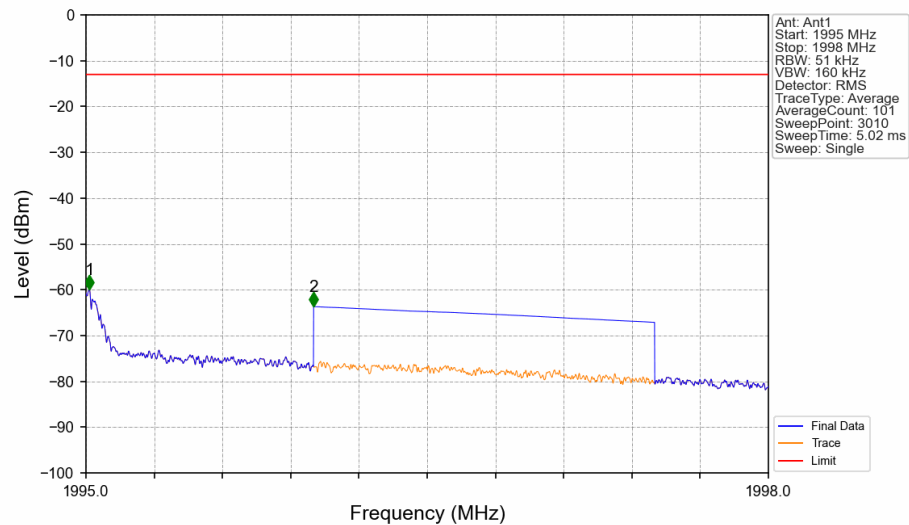
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 1927        | 1929       | 1         | CHP    | 1          | 1928.500   | -58.43      | -13         | Pass   |
| 1929        | 1930       | 0.051     | /      | 2          | 1930.000   | -55.72      | -13         | Pass   |

Band25\_1932.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3



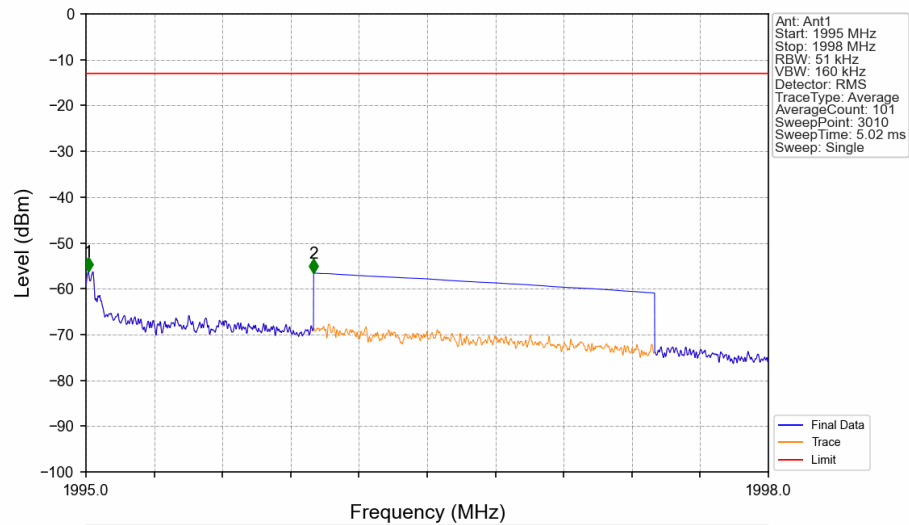
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 1927        | 1929       | 1         | CHP    | 1          | 1928.499   | -55.05      | -13         | Pass   |
| 1929        | 1930       | 0.051     | /      | 2          | 1930.000   | -56.06      | -13         | Pass   |

Band25\_1992.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



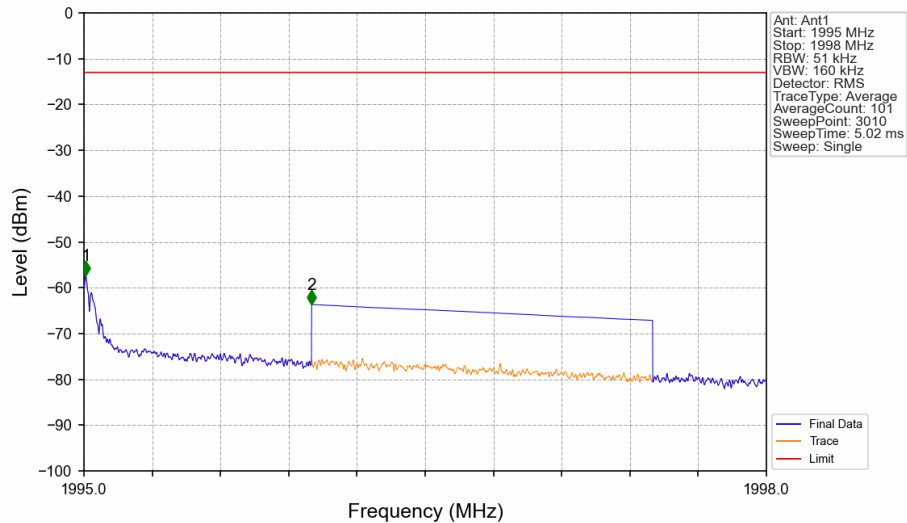
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 1995        | 1996       | 0.051     | /      | 1          | 1995.015   | -59.94      | -13         | Pass   |
| 1996        | 1998       | 1         | CHP    | 2          | 1996.001   | -63.70      | -13         | Pass   |

Band25\_1992.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3



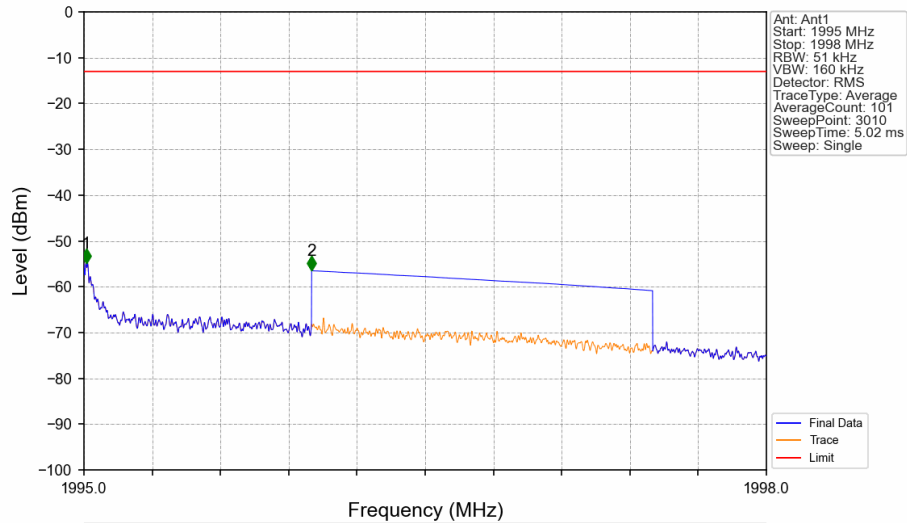
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 1995        | 1996       | 0.051     | /      | 1          | 1995.010   | -56.31      | -13         | Pass   |
| 1996        | 1998       | 1         | CHP    | 2          | 1996.001   | -56.59      | -13         | Pass   |

Band25\_1992.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 1995        | 1996       | 0.051     | /      | 1          | 1995.008   | -57.39      | -13         | Pass   |
| 1996        | 1998       | 1         | CHP    | 2          | 1996.001   | -63.69      | -13         | Pass   |

Band25\_1992.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 1995        | 1996       | 0.051     | /      | 1          | 1995.009   | -54.88      | -13         | Pass   |
| 1996        | 1998       | 1         | CHP    | 2          | 1996.001   | -56.51      | -13         | Pass   |

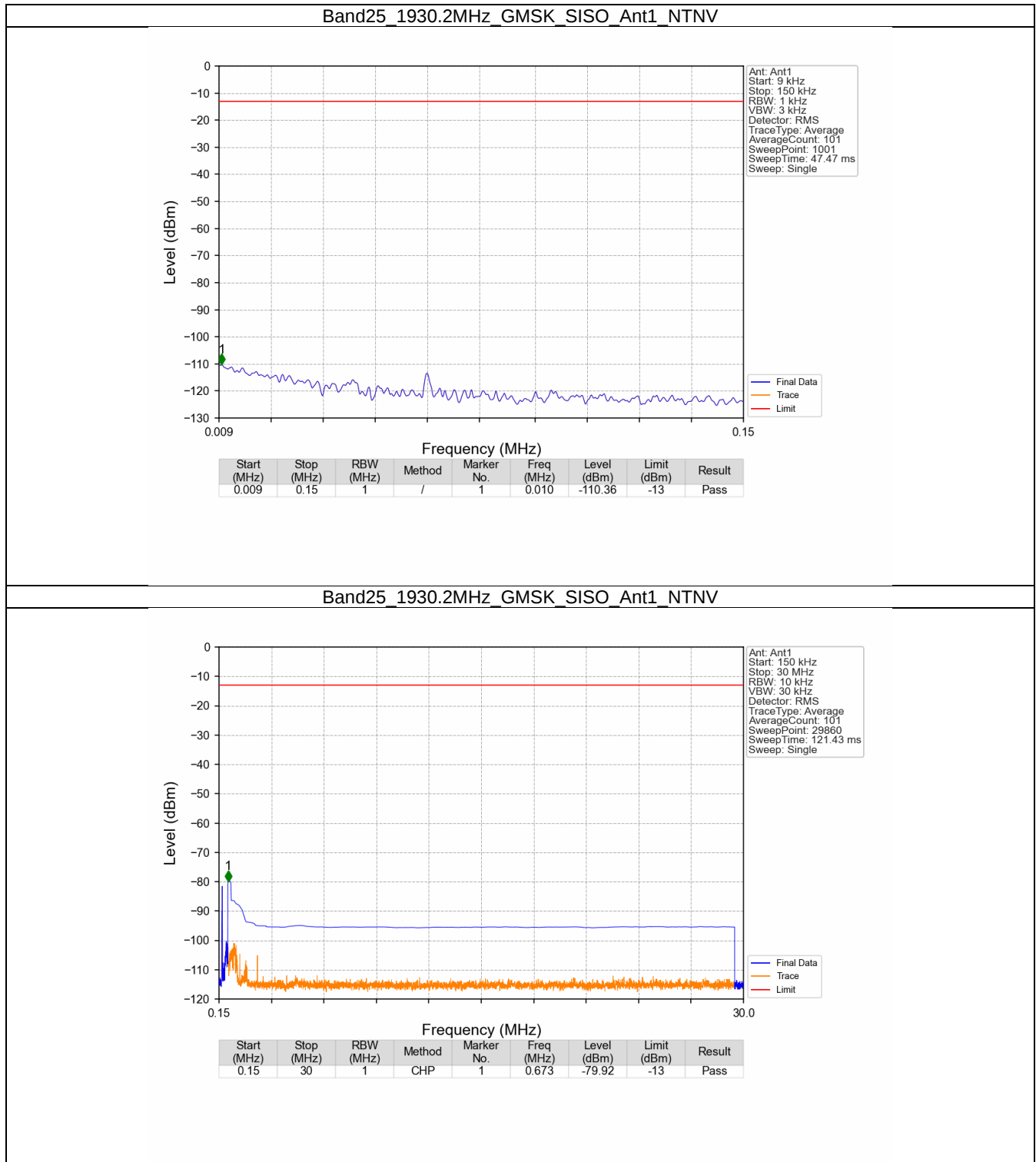
## 6. Spurious emissions

### 6.1 Band25

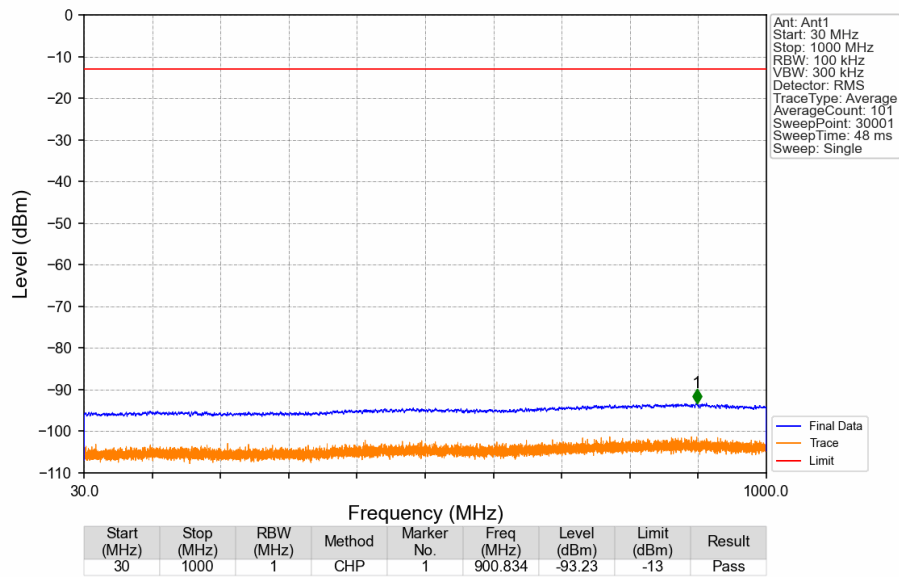
#### 6.1.1 Test Result

| Band: 25 / NTNV |             |                 |         |         |     |                     |       |         |
|-----------------|-------------|-----------------|---------|---------|-----|---------------------|-------|---------|
| Signal          |             |                 | Channel | TX Type | ANT | SE (dBm)            |       | Verdict |
| Type            | Level (dBm) | Frequency (MHz) |         |         |     | Result              | Limit |         |
| GMSK<br>0.2MHz  | -3.2        | 1930.2          | LCH     | SISO    | 1   | Refer To Test Graph |       | Pass    |
|                 |             | 1962.5          | MCH     | SISO    | 1   | Refer To Test Graph |       | Pass    |
|                 |             | 1994.8          | HCH     | SISO    | 1   | Refer To Test Graph |       | Pass    |
| AWGN<br>5MHz    | -3.2        | 1932.5          | LCH     | SISO    | 1   | Refer To Test Graph |       | Pass    |
|                 |             | 1962.5          | MCH     | SISO    | 1   | Refer To Test Graph |       | Pass    |
|                 |             | 1992.5          | HCH     | SISO    | 1   | Refer To Test Graph |       | Pass    |

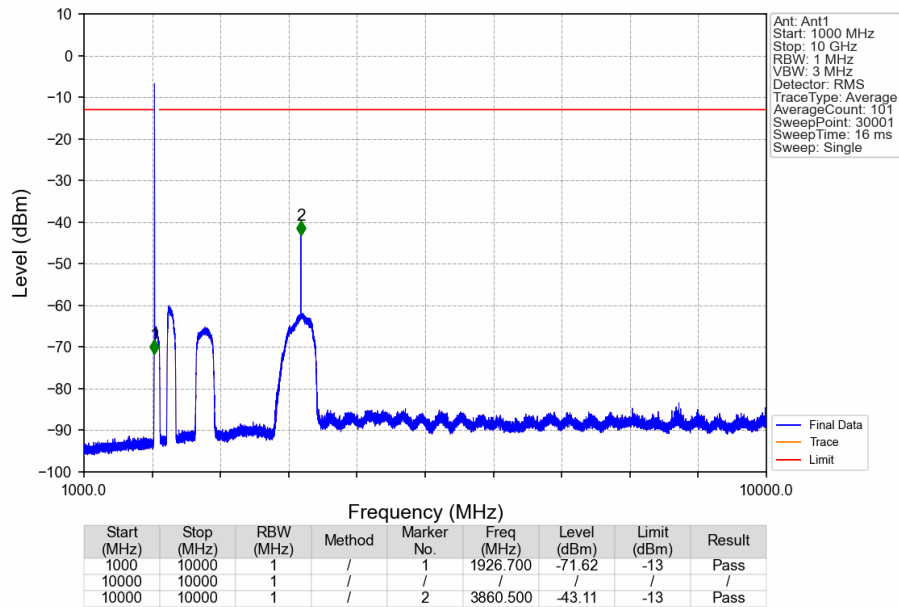
## 6.1.2 Test Graph



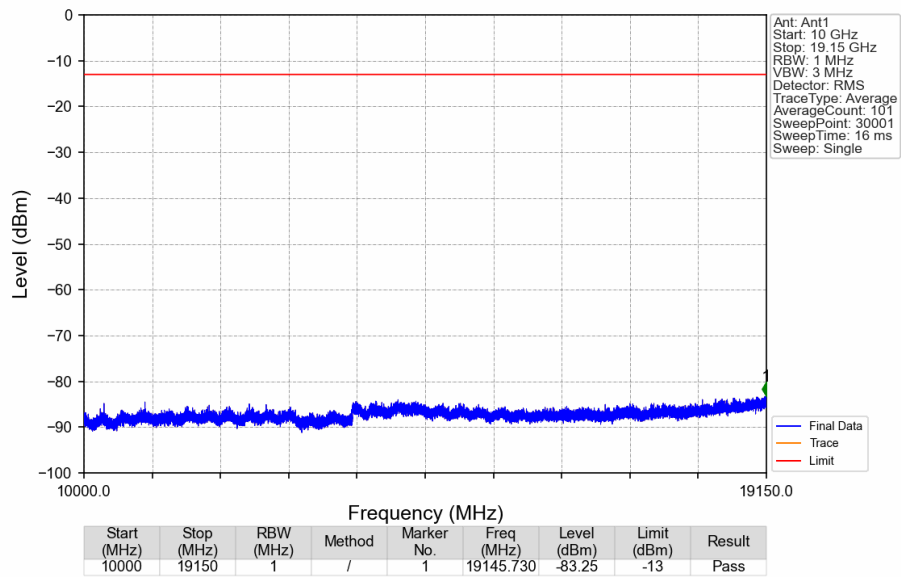
Band25\_1930.2MHz\_GMSK\_SISO\_Ant1\_NTNV



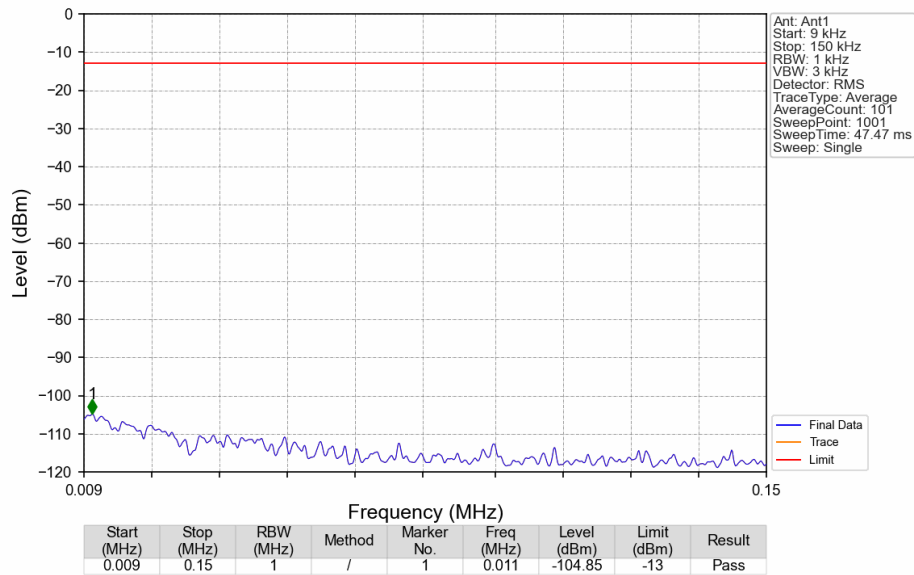
Band25\_1930.2MHz\_GMSK\_SISO\_Ant1\_NTNV



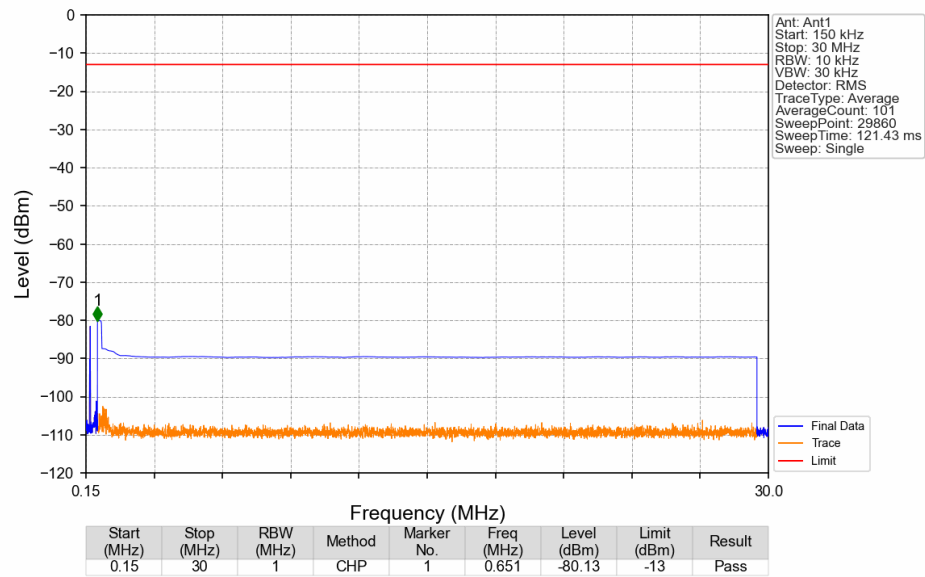
Band25\_1930.2MHz\_GMSK\_SISO\_Ant1\_NTNV



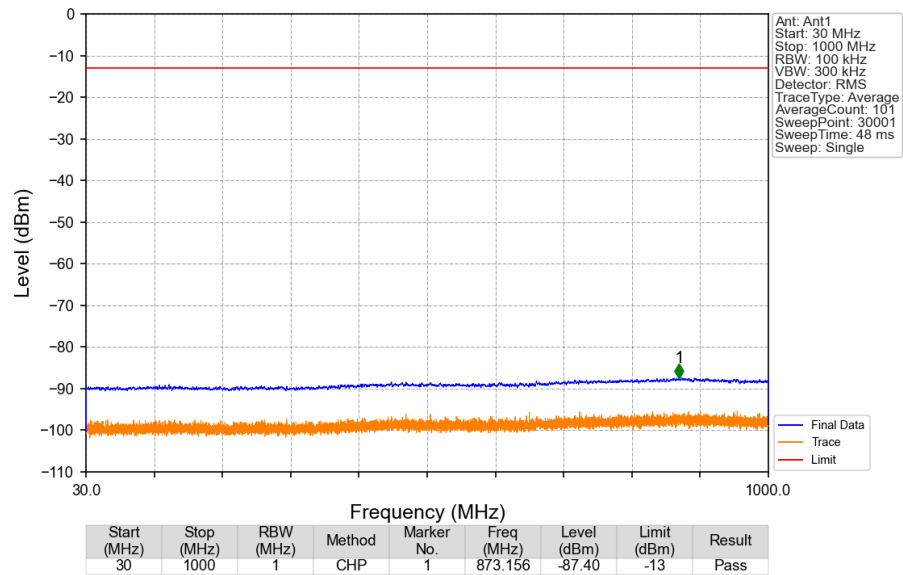
Band25\_1962.5MHz\_GMSK\_SISO\_Ant1\_NTNV



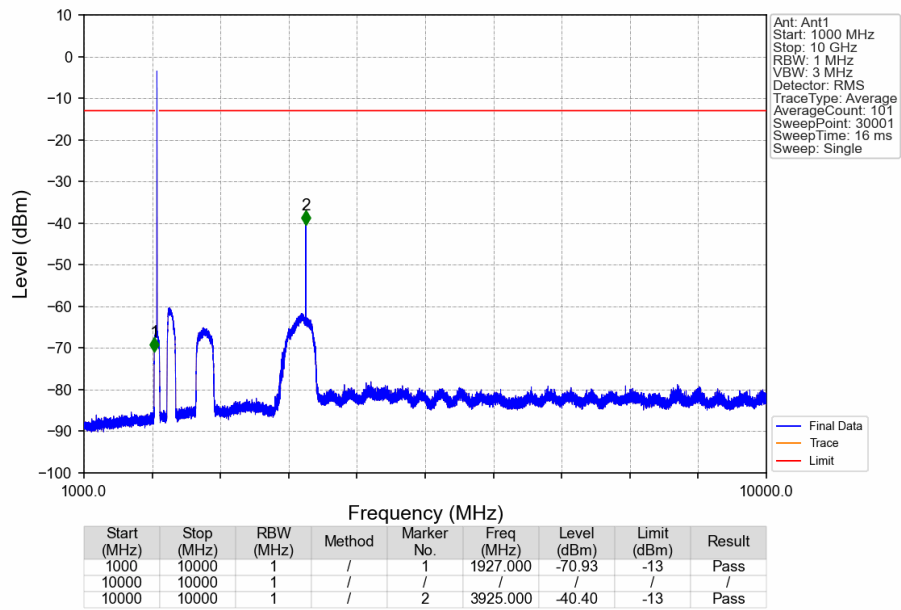
Band25\_1962.5MHz\_GMSK\_SISO\_Ant1\_NTNV



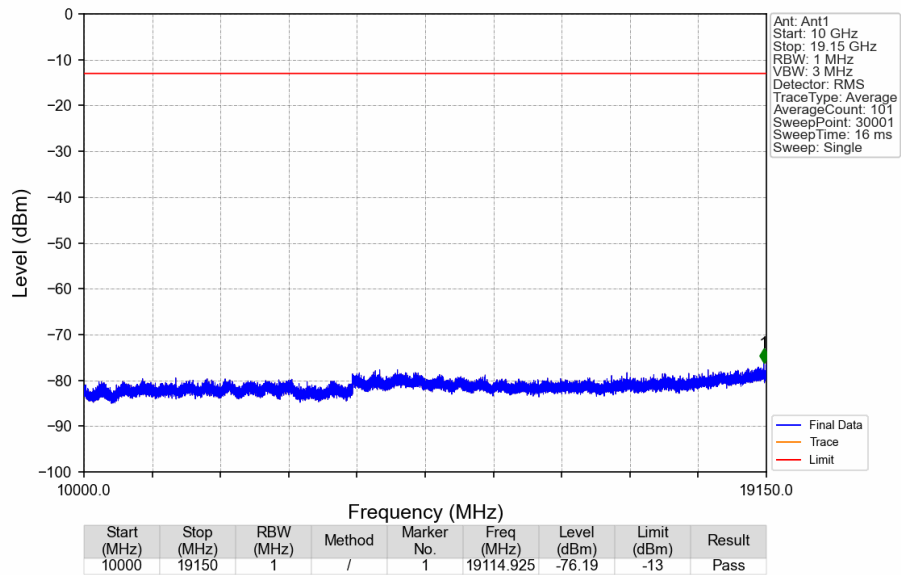
Band25\_1962.5MHz\_GMSK\_SISO\_Ant1\_NTNV



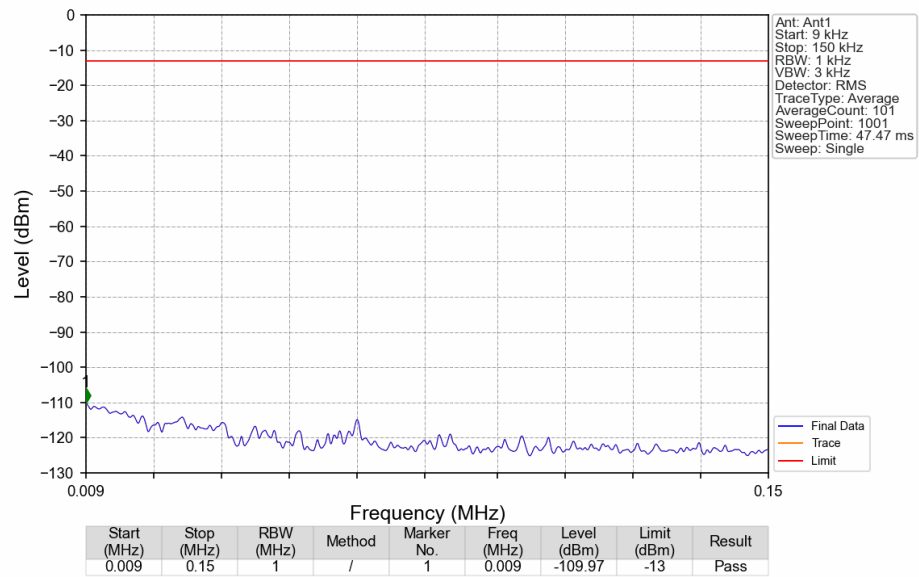
### Band25\_1962.5MHz\_GMSK\_SISO\_Ant1\_NTNV



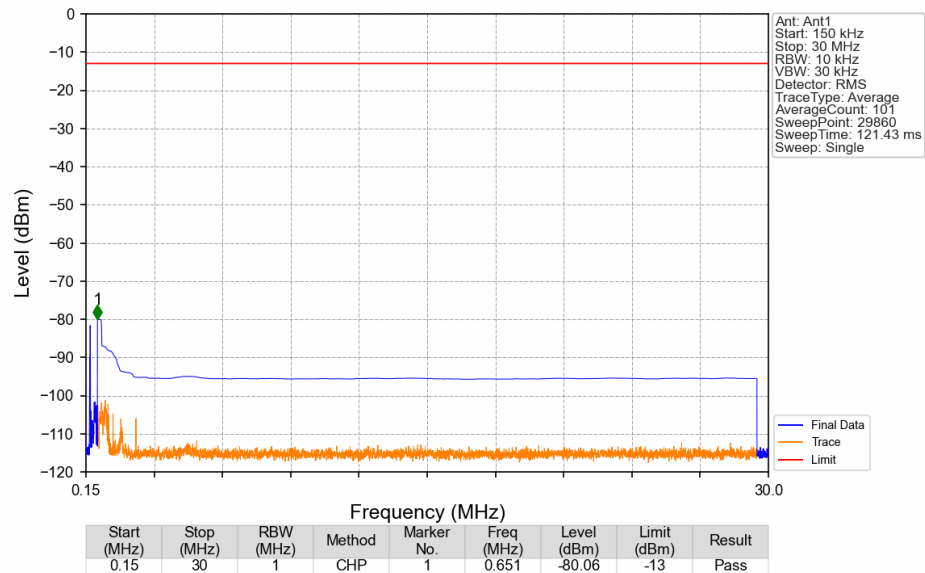
### Band25\_1962.5MHz\_GMSK\_SISO\_Ant1\_NTNV



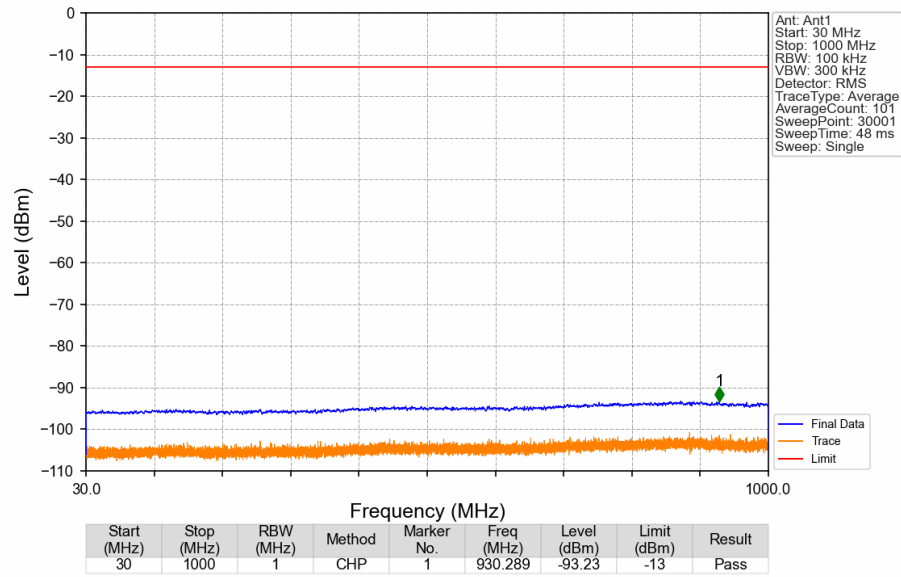
Band25\_1994.8MHz\_GMSK\_SISO\_Ant1\_NTNV



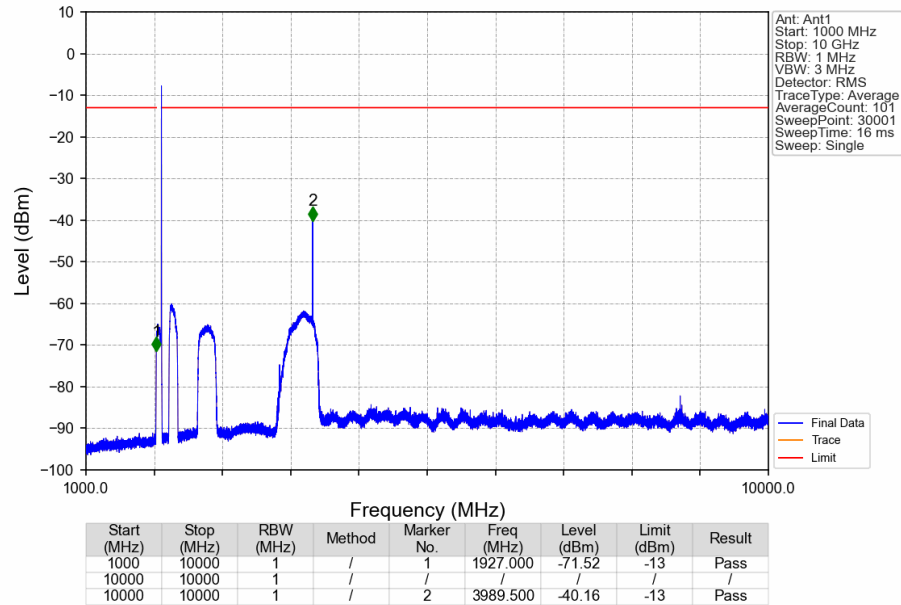
Band25\_1994.8MHz\_GMSK\_SISO\_Ant1\_NTNV



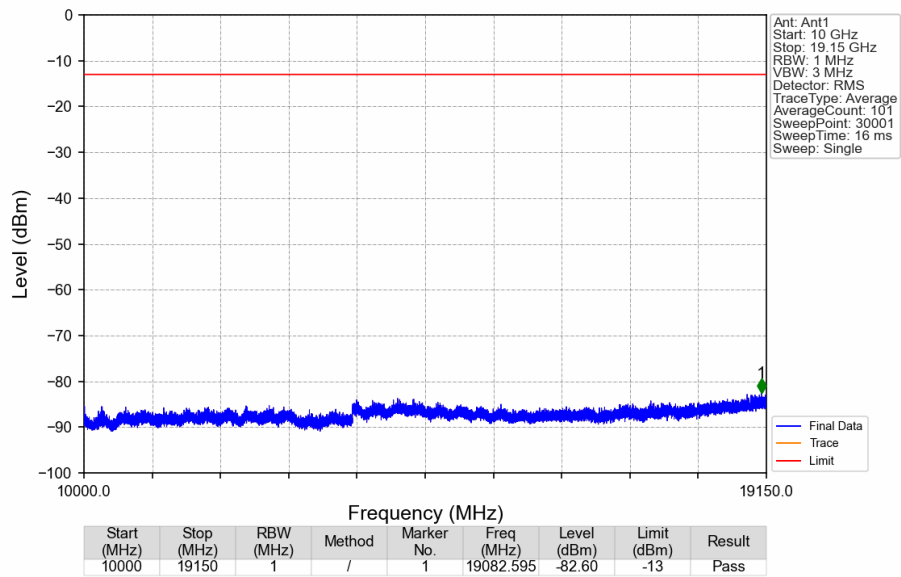
Band25\_1994.8MHz\_GMSK\_SISO\_Ant1\_NTNV



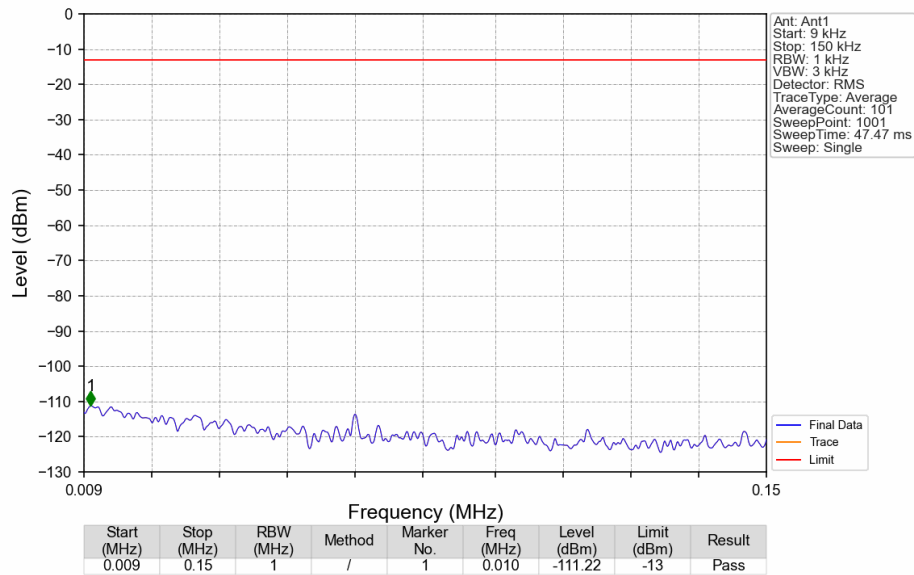
Band25\_1994.8MHz\_GMSK\_SISO\_Ant1\_NTNV



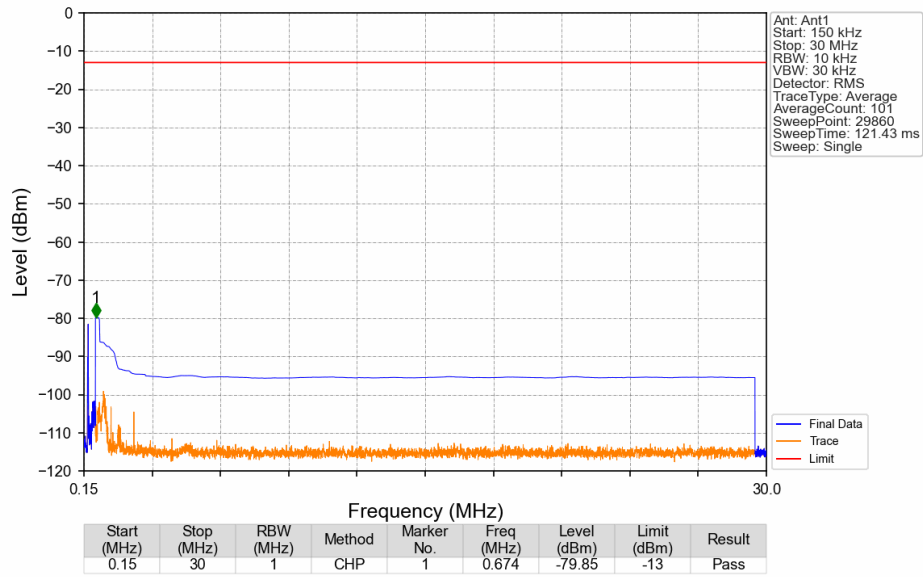
## Band25\_1994.8MHz\_GMSK\_SISO\_Ant1\_NTNV



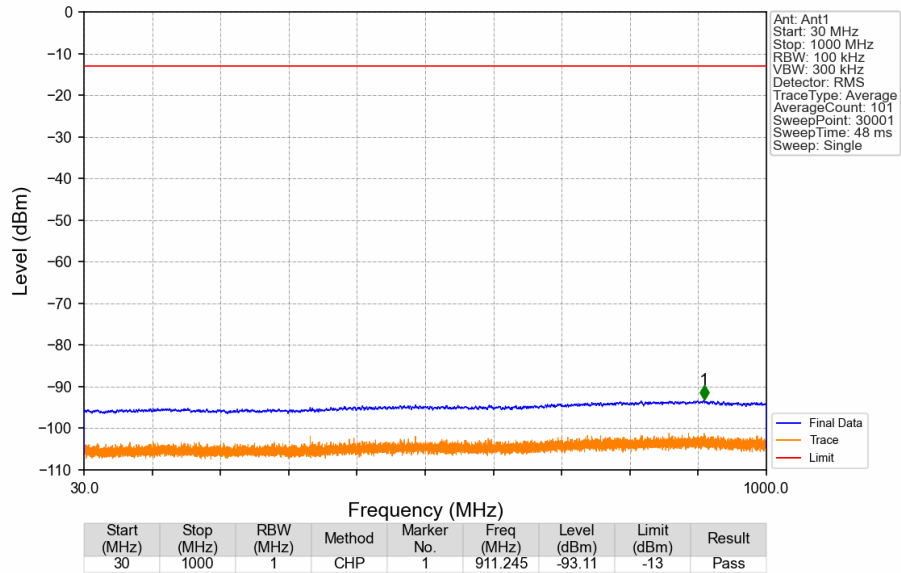
## Band25\_1932.5MHz\_AWGN\_SISO\_Ant1\_NTNV



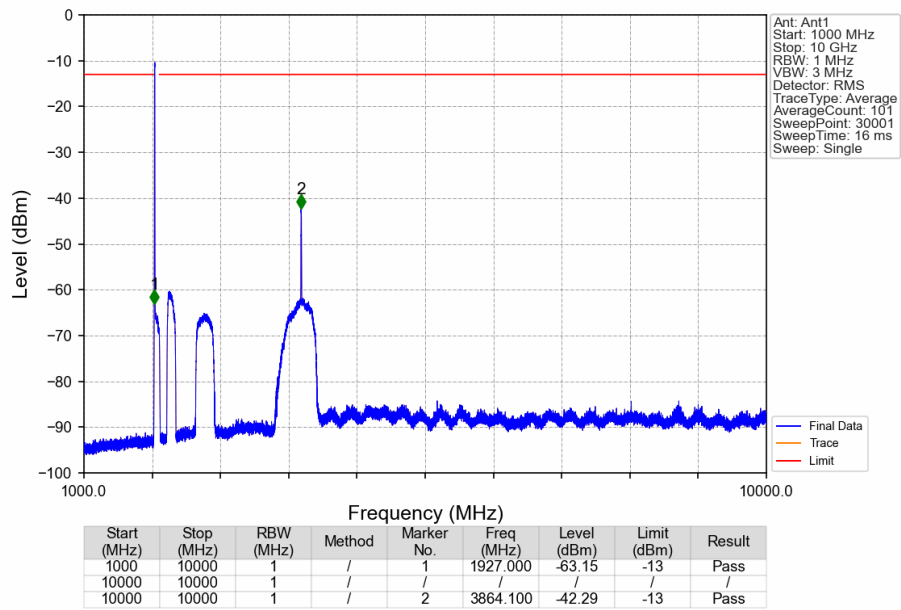
Band25\_1932.5MHz\_AWGN\_SISO\_Ant1\_NTNV



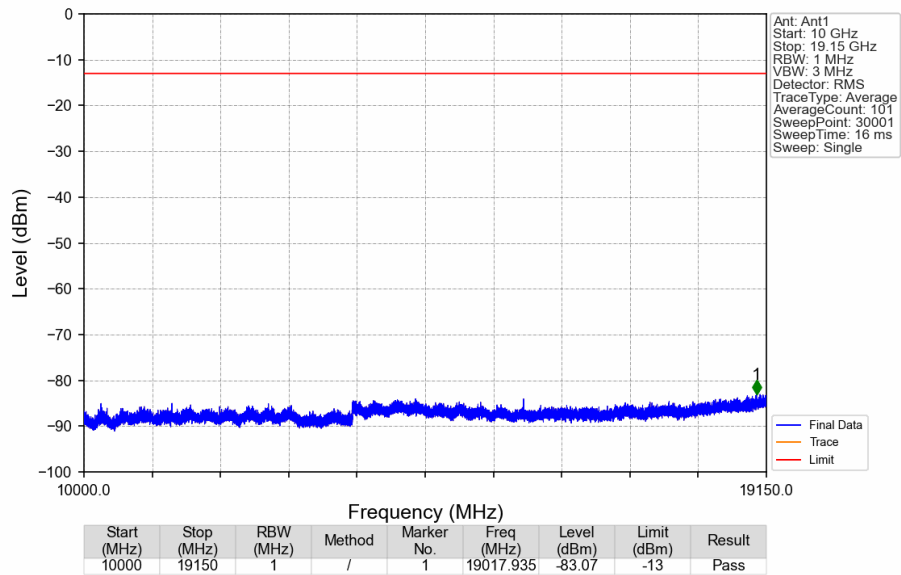
Band25\_1932.5MHz\_AWGN\_SISO\_Ant1\_NTNV



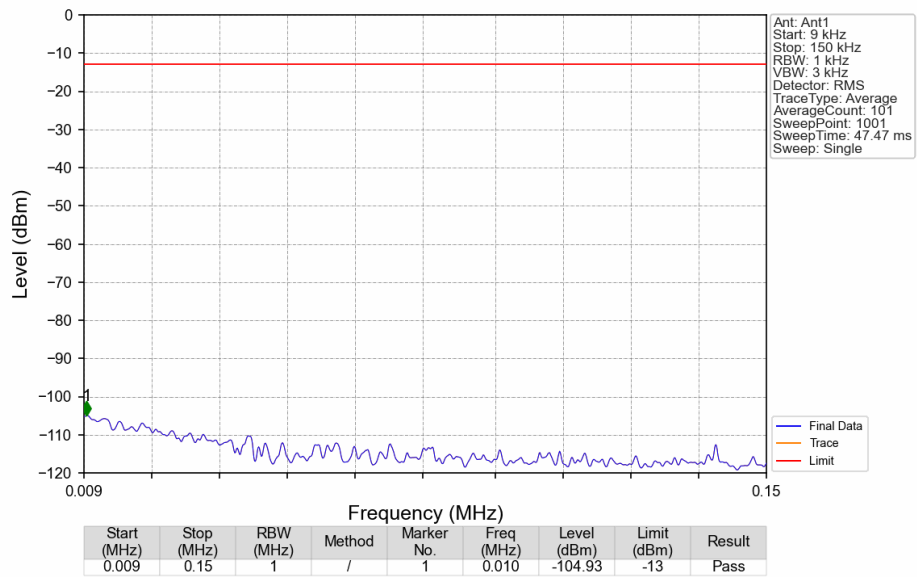
Band25\_1932.5MHz\_AWGN\_SISO\_Ant1\_NTNV



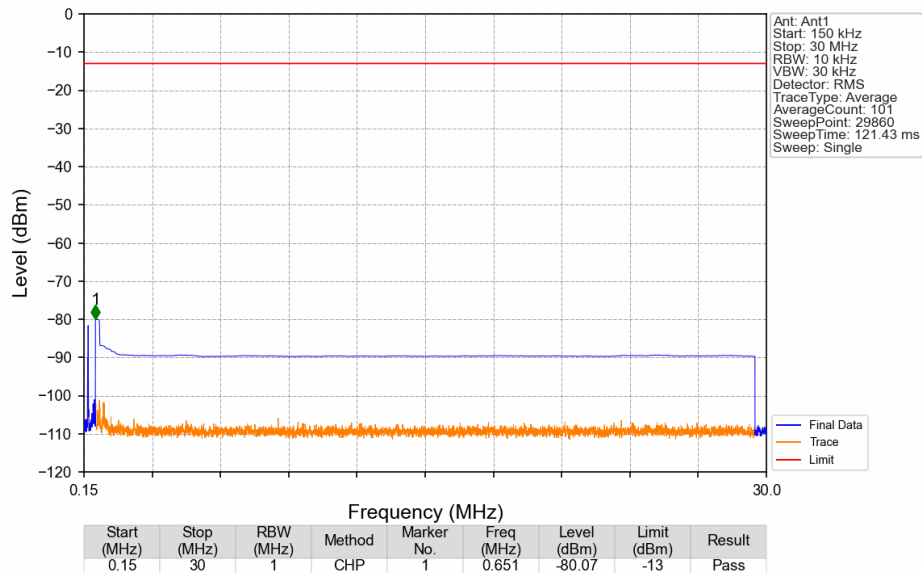
Band25\_1932.5MHz\_AWGN\_SISO\_Ant1\_NTNV



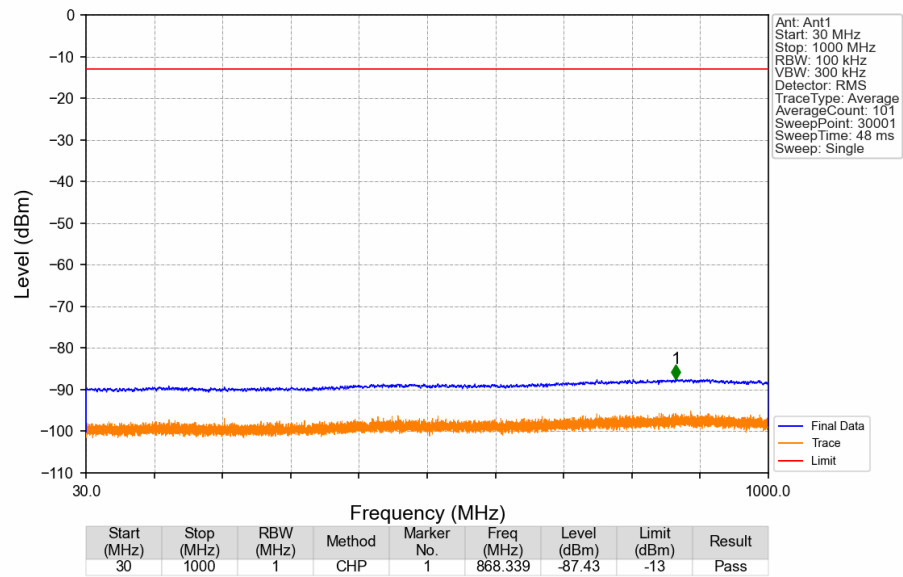
Band25\_1962.5MHz\_AWGN\_SISO\_Ant1\_NTNV



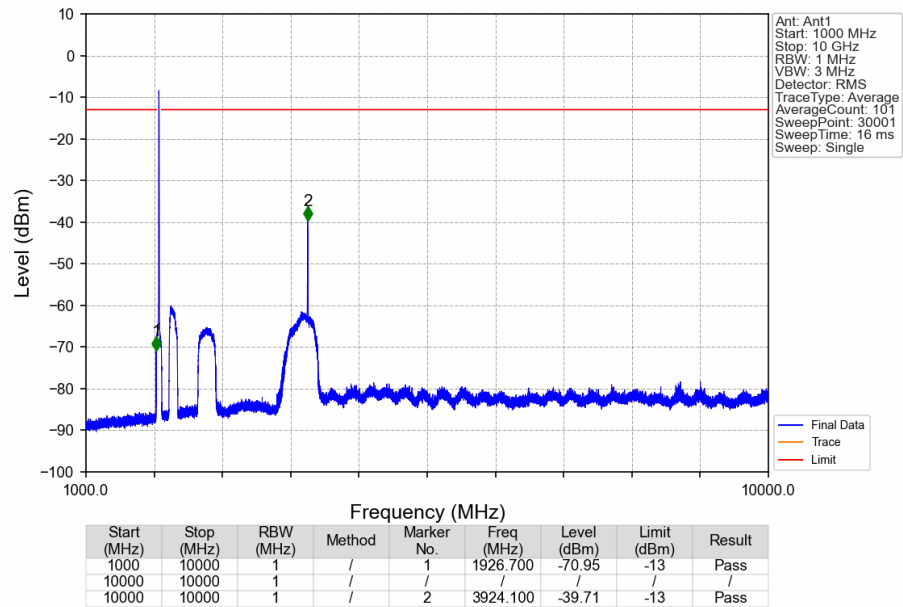
Band25\_1962.5MHz\_AWGN\_SISO\_Ant1\_NTNV



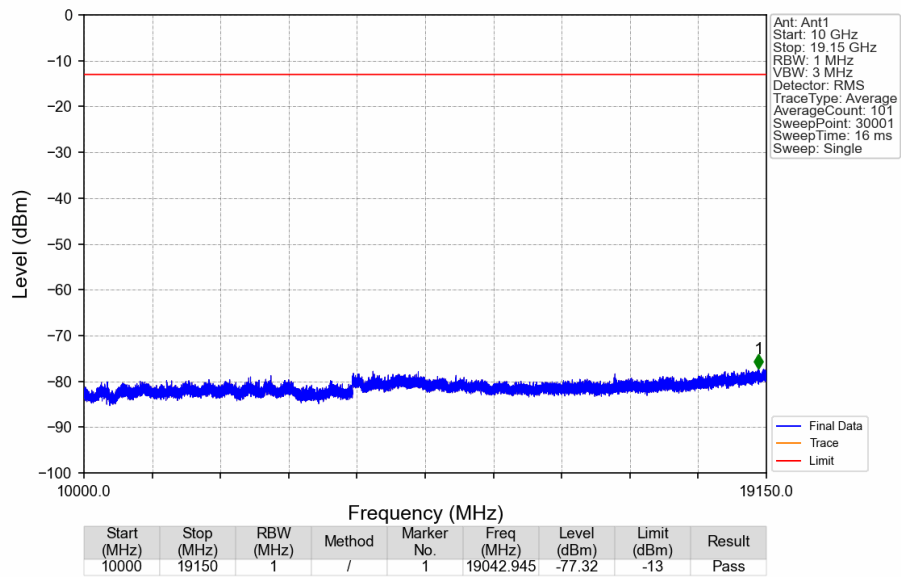
Band25\_1962.5MHz\_AWGN\_SISO\_Ant1\_NTNV



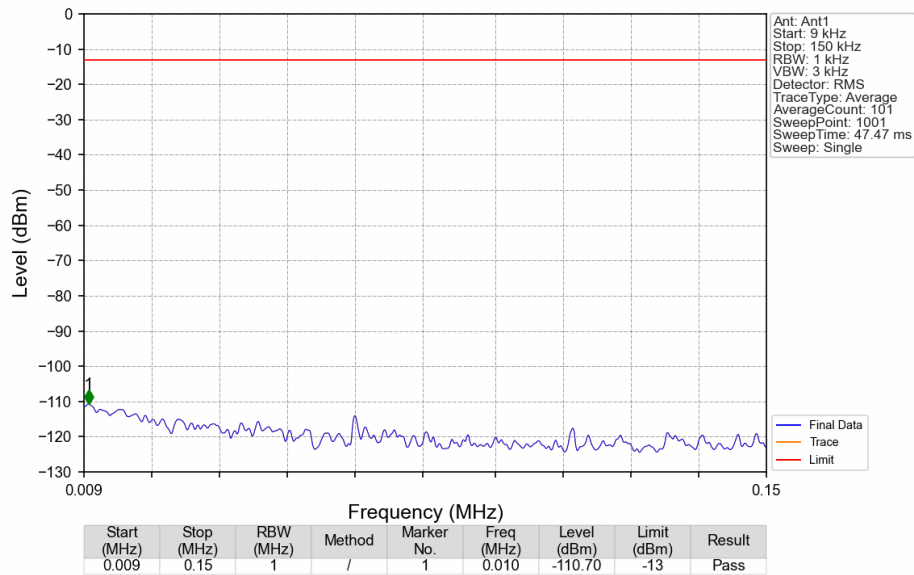
Band25\_1962.5MHz\_AWGN\_SISO\_Ant1\_NTNV



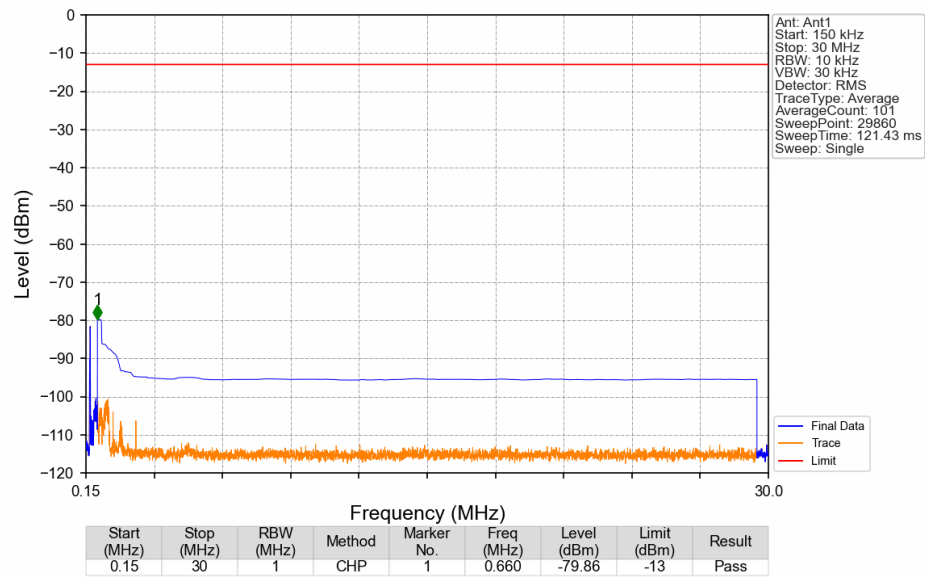
Band25\_1962.5MHz\_AWGN\_SISO\_Ant1\_NTNV



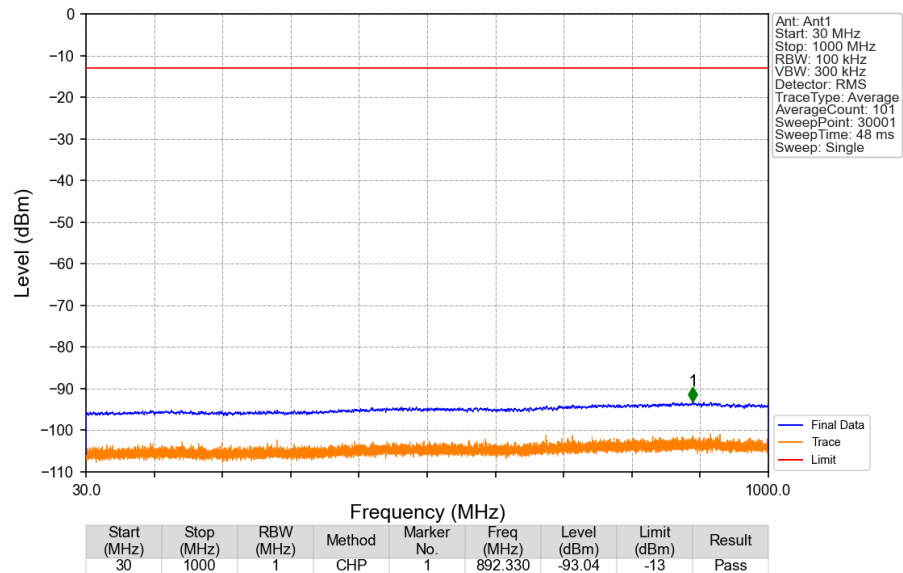
Band25\_1992.5MHz\_AWGN\_SISO\_Ant1\_NTNV



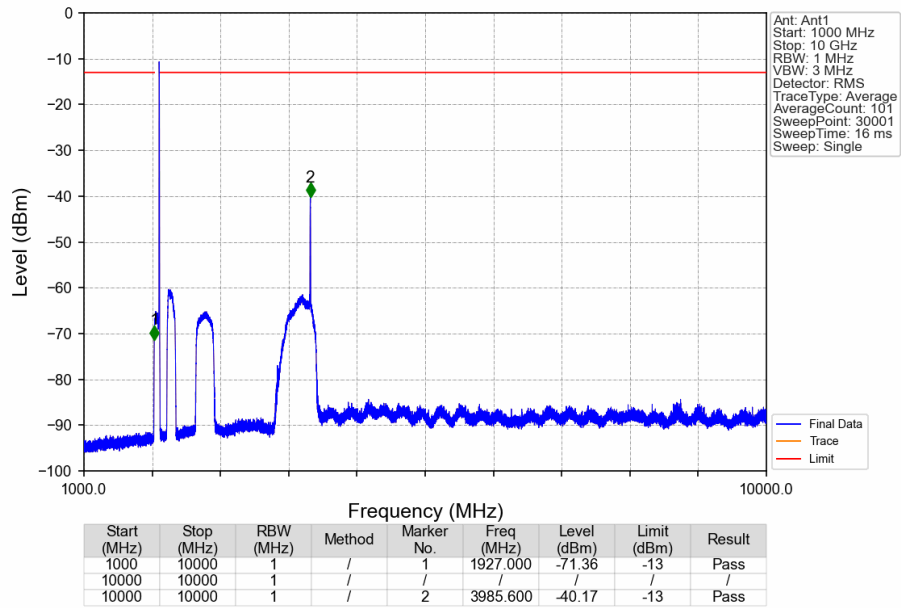
Band25\_1992.5MHz\_AWGN\_SISO\_Ant1\_NTNV



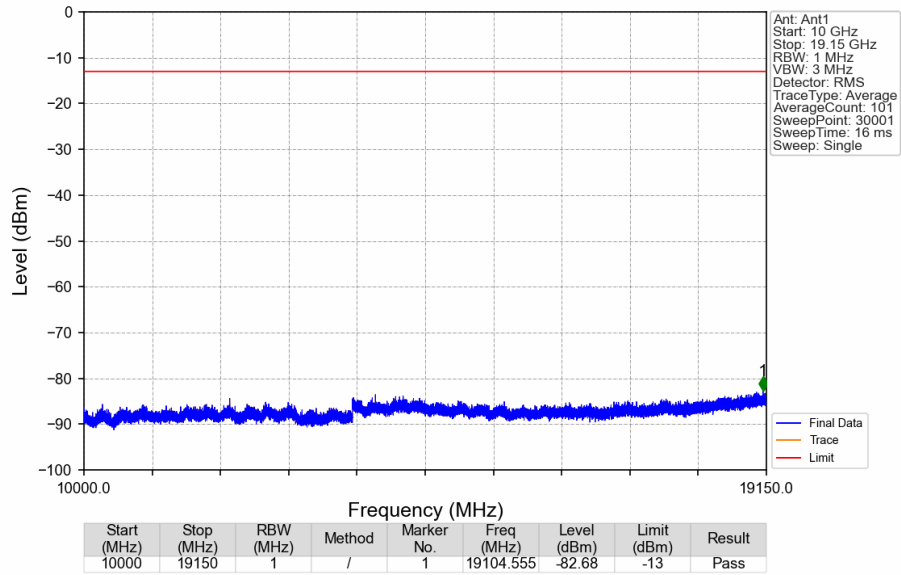
Band25\_1992.5MHz\_AWGN\_SISO\_Ant1\_NTNV



Band25\_1992.5MHz\_AWGN\_SISO\_Ant1\_NTNV



Band25\_1992.5MHz\_AWGN\_SISO\_Ant1\_NTNV



## 7. Frequency stability measurements

### 7.1 Band25\_Ant1

#### 7.1.1 Test Result

| Band: 25 / NTNV |             |                 |              |                  |                     |                    |         |
|-----------------|-------------|-----------------|--------------|------------------|---------------------|--------------------|---------|
| Signal          |             |                 | Temp<br>(°C) | Voltage<br>(VAC) | Freq. Error<br>(Hz) | Tolerance<br>(ppm) | Verdict |
| Type            | Level (dBm) | Frequency (MHz) |              |                  |                     |                    |         |
| CW              | -3.2        | 1930.1          | 20           | 102              | -137                | -0.071             | Pass    |
|                 |             |                 |              | 120              | -142                | -0.074             | Pass    |
|                 |             |                 |              | 138              | -142                | -0.074             | Pass    |
|                 |             |                 | -20          | 120              | -148                | -0.077             | Pass    |
|                 |             |                 | -10          | 120              | -140                | -0.073             | Pass    |
|                 |             |                 | 0            | 120              | -144                | -0.075             | Pass    |
|                 |             |                 | 10           | 120              | -144                | -0.075             | Pass    |
|                 |             |                 | 30           | 120              | -141                | -0.073             | Pass    |
|                 |             |                 | 40           | 120              | -151                | -0.078             | Pass    |
|                 |             |                 | 50           | 120              | -148                | -0.077             | Pass    |
|                 |             | 1962.5          | 20           | 102              | -131                | -0.067             | Pass    |
|                 |             |                 |              | 120              | -138                | -0.070             | Pass    |
|                 |             |                 |              | 138              | -140                | -0.071             | Pass    |
|                 |             |                 | -20          | 120              | -139                | -0.071             | Pass    |
|                 |             |                 | -10          | 120              | -144                | -0.073             | Pass    |
|                 |             |                 | 0            | 120              | -143                | -0.073             | Pass    |
|                 |             |                 | 10           | 120              | -151                | -0.077             | Pass    |
|                 |             |                 | 30           | 120              | -144                | -0.073             | Pass    |
|                 |             |                 | 40           | 120              | -144                | -0.073             | Pass    |
|                 |             |                 | 50           | 120              | -151                | -0.077             | Pass    |
|                 |             | 1994.9          | 20           | 102              | -149                | -0.075             | Pass    |
|                 |             |                 |              | 120              | -143                | -0.072             | Pass    |
|                 |             |                 |              | 138              | -150                | -0.075             | Pass    |
|                 |             |                 | -20          | 120              | -142                | -0.071             | Pass    |
|                 |             |                 | -10          | 120              | -145                | -0.073             | Pass    |
|                 |             |                 | 0            | 120              | -145                | -0.073             | Pass    |
|                 |             |                 | 10           | 120              | -144                | -0.072             | Pass    |
|                 |             |                 | 30           | 120              | -148                | -0.074             | Pass    |
|                 |             |                 | 40           | 120              | -137                | -0.069             | Pass    |
|                 |             |                 | 50           | 120              | -140                | -0.070             | Pass    |

## 8. Radiated Spurious Emissions

### 8.1 Band25\_Ant1

#### 8.1.1 Test Result

| AWGN_Low channel |                                          |        |       |            |        |
|------------------|------------------------------------------|--------|-------|------------|--------|
| Frequency        | Spurious Emission Polarization and Level |        | Limit | Over limit | Result |
| MHz              | polarization                             | dBm    | dBm   | dB         |        |
| 126.33           | Horizontal                               | -63.92 | -13   | -50.92     | pass   |
| 247.37           | Horizontal                               | -62.70 | -13   | -49.70     | pass   |
| 686.31           | Horizontal                               | -59.37 | -13   | -46.37     | pass   |
| 2191.48          | Horizontal                               | -46.29 | -13   | -33.29     | pass   |
| 9298.33          | Horizontal                               | -49.20 | -13   | -36.20     | pass   |
| 17033.48         | Horizontal                               | -39.58 | -13   | -26.58     | pass   |
| 117.09           | Vertical                                 | -62.00 | -13   | -49.00     | pass   |
| 220.75           | Vertical                                 | -60.52 | -13   | -47.52     | pass   |
| 664.84           | Vertical                                 | -59.62 | -13   | -46.62     | pass   |
| 2169.33          | Vertical                                 | -54.27 | -13   | -41.27     | pass   |
| 8168.03          | Vertical                                 | -48.28 | -13   | -35.28     | pass   |
| 16872.47         | Vertical                                 | -44.37 | -13   | -31.37     | pass   |

| AWGN_Middle channel |                                          |        |       |            |        |
|---------------------|------------------------------------------|--------|-------|------------|--------|
| Frequency           | Spurious Emission Polarization and Level |        | Limit | Over limit | Result |
| MHz                 | polarization                             | dBm    | dBm   | dB         |        |
| 93.33               | Horizontal                               | -62.71 | -13   | -49.71     | pass   |
| 250.04              | Horizontal                               | -61.77 | -13   | -48.77     | pass   |
| 697.37              | Horizontal                               | -60.98 | -13   | -47.98     | pass   |
| 2173.70             | Horizontal                               | -48.99 | -13   | -35.99     | pass   |
| 9315.49             | Horizontal                               | -45.40 | -13   | -32.40     | pass   |
| 16946.46            | Horizontal                               | -40.08 | -13   | -27.08     | pass   |
| 79.29               | Vertical                                 | -61.90 | -13   | -48.90     | pass   |
| 230.32              | Vertical                                 | -59.53 | -13   | -46.53     | pass   |
| 639.15              | Vertical                                 | -57.00 | -13   | -44.00     | pass   |
| 2239.43             | Vertical                                 | -50.00 | -13   | -37.00     | pass   |
| 8157.81             | Vertical                                 | -47.08 | -13   | -34.08     | pass   |
| 16854.15            | Vertical                                 | -40.37 | -13   | -27.37     | pass   |

| AWGN_High channel |                                          |        |       |            |        |
|-------------------|------------------------------------------|--------|-------|------------|--------|
| Frequency         | Spurious Emission Polarization and Level |        | Limit | Over limit | Result |
| MHz               | polarization                             | dBm    | dBm   | dB         |        |
| 100.41            | Horizontal                               | -63.84 | -13   | -50.84     | pass   |
| 229.77            | Horizontal                               | -61.79 | -13   | -48.79     | pass   |
| 712.58            | Horizontal                               | -60.61 | -13   | -47.61     | pass   |
| 2184.44           | Horizontal                               | -48.16 | -13   | -35.16     | pass   |
| 9309.23           | Horizontal                               | -41.83 | -13   | -28.83     | pass   |
| 16977.24          | Horizontal                               | -33.04 | -13   | -20.04     | pass   |
| 80.24             | Vertical                                 | -64.63 | -13   | -51.63     | pass   |
| 232.59            | Vertical                                 | -59.72 | -13   | -46.72     | pass   |
| 666.85            | Vertical                                 | -57.04 | -13   | -44.04     | pass   |
| 2172.37           | Vertical                                 | -48.53 | -13   | -35.53     | pass   |
| 8096.59           | Vertical                                 | -50.12 | -13   | -37.12     | pass   |
| 16896.67          | Vertical                                 | -38.60 | -13   | -25.60     | pass   |

| GMSK_Low channel |                                          |        |       |            |        |
|------------------|------------------------------------------|--------|-------|------------|--------|
| Frequency        | Spurious Emission Polarization and Level |        | Limit | Over limit | Result |
| MHz              | polarization                             | dBm    | dBm   | dB         |        |
| 97.94            | Horizontal                               | -64.73 | -13   | -51.73     | pass   |
| 249.44           | Horizontal                               | -60.43 | -13   | -47.43     | pass   |
| 701.37           | Horizontal                               | -62.37 | -13   | -49.37     | pass   |
| 2503.28          | Horizontal                               | -47.07 | -13   | -34.07     | pass   |
| 9014.81          | Horizontal                               | -44.45 | -13   | -31.45     | pass   |
| 16261.12         | Horizontal                               | -40.66 | -13   | -27.66     | pass   |
| 93.54            | Vertical                                 | -63.91 | -13   | -50.91     | pass   |
| 249.41           | Vertical                                 | -65.09 | -13   | -52.09     | pass   |
| 710.60           | Vertical                                 | -62.68 | -13   | -49.68     | pass   |
| 2609.07          | Vertical                                 | -46.64 | -13   | -33.64     | pass   |
| 8997.55          | Vertical                                 | -43.47 | -13   | -30.47     | pass   |
| 16471.55         | Vertical                                 | -39.66 | -13   | -26.66     | pass   |

| GMSK_Middle channel |                                          |        |       |            |        |
|---------------------|------------------------------------------|--------|-------|------------|--------|
| Frequency           | Spurious Emission Polarization and Level |        | Limit | Over limit | Result |
| MHz                 | polarization                             | dBm    | dBm   | dB         |        |
| 107.28              | Horizontal                               | -64.72 | -13   | -48.74     | pass   |
| 233.68              | Horizontal                               | -61.74 | -13   | -46.78     | pass   |
| 730.03              | Horizontal                               | -59.78 | -13   | -35.06     | pass   |
| 2504.86             | Horizontal                               | -48.06 | -13   | -34.33     | pass   |
| 8995.15             | Horizontal                               | -47.33 | -13   | -21.14     | pass   |
| 16271.78            | Horizontal                               | -34.14 | -13   | -49.80     | pass   |
| 116.31              | Vertical                                 | -62.80 | -13   | -49.08     | pass   |
| 214.51              | Vertical                                 | -62.08 | -13   | -44.81     | pass   |
| 712.12              | Vertical                                 | -57.81 | -13   | -42.60     | pass   |
| 2570.59             | Vertical                                 | -55.60 | -13   | -30.25     | pass   |
| 9072.35             | Vertical                                 | -43.25 | -13   | -26.20     | pass   |
| 16463.95            | Vertical                                 | -39.20 | -13   | -48.74     | pass   |

| GMSK_High channel |                                          |        |       |            |        |
|-------------------|------------------------------------------|--------|-------|------------|--------|
| Frequency         | Spurious Emission Polarization and Level |        | Limit | Over limit | Result |
| MHz               | polarization                             | dBm    | dBm   | dB         |        |
| 92.36             | Horizontal                               | -62.48 | -13   | -49.48     | pass   |
| 250.59            | Horizontal                               | -60.84 | -13   | -47.84     | pass   |
| 730.35            | Horizontal                               | -58.12 | -13   | -45.12     | pass   |
| 2542.76           | Horizontal                               | -46.46 | -13   | -33.46     | pass   |
| 8972.95           | Horizontal                               | -47.70 | -13   | -34.70     | pass   |
| 16229.02          | Horizontal                               | -33.98 | -13   | -20.98     | pass   |
| 80.43             | Vertical                                 | -61.56 | -13   | -48.56     | pass   |
| 234.93            | Vertical                                 | -62.70 | -13   | -49.70     | pass   |
| 712.07            | Vertical                                 | -56.90 | -13   | -43.90     | pass   |
| 2626.39           | Vertical                                 | -48.90 | -13   | -35.90     | pass   |
| 9029.01           | Vertical                                 | -45.28 | -13   | -32.28     | pass   |
| 16419.53          | Vertical                                 | -39.37 | -13   | -26.37     | pass   |