

## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1 Test Result

#### 1.1.1 B38\_5MHz\_EIRP

| Band: 38 / Bandwidth: 5MHz / NTNV |                 |               |        |                       |            |            |         |         |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|---------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |         | Verdict |
|                                   |                 | Size          | Offset |                       |            | Result     | Limit   |         |
| QPSK                              | 2572.5          | 1             | 0      | 23.38                 | 3.00       | 26.38      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 23.39                 | 3.00       | 26.39      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 23.23                 | 3.00       | 26.23      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 22.41                 | 3.00       | 25.41      | <=33.01 | Pass    |
|                                   |                 |               | 6      | 22.39                 | 3.00       | 25.39      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 22.32                 | 3.00       | 25.32      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 22.06                 | 3.00       | 25.06      | <=33.01 | Pass    |
|                                   | 2595            | 1             | 0      | 22.97                 | 3.00       | 25.97      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 23.05                 | 3.00       | 26.05      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 22.94                 | 3.00       | 25.94      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 22.15                 | 3.00       | 25.15      | <=33.01 | Pass    |
|                                   |                 |               | 6      | 22.16                 | 3.00       | 25.16      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 22.06                 | 3.00       | 25.06      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 22.08                 | 3.00       | 25.08      | <=33.01 | Pass    |
|                                   | 2617.5          | 1             | 0      | 22.93                 | 3.00       | 25.93      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 23.00                 | 3.00       | 26.00      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 22.89                 | 3.00       | 25.89      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 22.10                 | 3.00       | 25.10      | <=33.01 | Pass    |
|                                   |                 |               | 6      | 22.10                 | 3.00       | 25.10      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 22.05                 | 3.00       | 25.05      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 22.09                 | 3.00       | 25.09      | <=33.01 | Pass    |
| 16QAM                             | 2572.5          | 1             | 0      | 22.51                 | 3.00       | 25.51      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 22.43                 | 3.00       | 25.43      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 22.36                 | 3.00       | 25.36      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 21.41                 | 3.00       | 24.41      | <=33.01 | Pass    |
|                                   |                 |               | 6      | 21.40                 | 3.00       | 24.40      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 21.30                 | 3.00       | 24.30      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 21.48                 | 3.00       | 24.48      | <=33.01 | Pass    |
|                                   | 2595            | 1             | 0      | 22.06                 | 3.00       | 25.06      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 22.14                 | 3.00       | 25.14      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 21.99                 | 3.00       | 24.99      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 21.04                 | 3.00       | 24.04      | <=33.01 | Pass    |
|                                   |                 |               | 6      | 21.06                 | 3.00       | 24.06      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 20.98                 | 3.00       | 23.98      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 21.09                 | 3.00       | 24.09      | <=33.01 | Pass    |
|                                   | 2617.5          | 1             | 0      | 22.01                 | 3.00       | 25.01      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 22.08                 | 3.00       | 25.08      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 21.91                 | 3.00       | 24.91      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 20.96                 | 3.00       | 23.96      | <=33.01 | Pass    |
|                                   |                 |               | 6      | 21.03                 | 3.00       | 24.03      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 20.97                 | 3.00       | 23.97      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 21.12                 | 3.00       | 24.12      | <=33.01 | Pass    |

Note1: EIRP=Conducted Power+Antenna Gain

## 1.1.2 B38\_10MHz\_EIRP

| Band: 38 / Bandwidth: 10MHz / NTNV |                 |               |        |                       |            |            |         |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |         | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result     | Limit   |         |
| QPSK                               | 2575            | 1             | 0      | 23.13                 | 3.00       | 26.13      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 23.30                 | 3.00       | 26.30      | <=33.01 | Pass    |
|                                    |                 |               | 49     | 23.23                 | 3.00       | 26.23      | <=33.01 | Pass    |
|                                    |                 | 25            | 0      | 22.36                 | 3.00       | 25.36      | <=33.01 | Pass    |
|                                    |                 |               | 13     | 22.23                 | 3.00       | 25.23      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 22.20                 | 3.00       | 25.20      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 22.25                 | 3.00       | 25.25      | <=33.01 | Pass    |
|                                    | 2595            | 1             | 0      | 23.13                 | 3.00       | 26.13      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 23.00                 | 3.00       | 26.00      | <=33.01 | Pass    |
|                                    |                 |               | 49     | 23.05                 | 3.00       | 26.05      | <=33.01 | Pass    |
|                                    |                 | 25            | 0      | 22.16                 | 3.00       | 25.16      | <=33.01 | Pass    |
|                                    |                 |               | 13     | 22.13                 | 3.00       | 25.13      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 22.09                 | 3.00       | 25.09      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 22.09                 | 3.00       | 25.09      | <=33.01 | Pass    |
|                                    | 2615            | 1             | 0      | 23.10                 | 3.00       | 26.10      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 22.91                 | 3.00       | 25.91      | <=33.01 | Pass    |
|                                    |                 |               | 49     | 22.96                 | 3.00       | 25.96      | <=33.01 | Pass    |
|                                    |                 | 25            | 0      | 22.16                 | 3.00       | 25.16      | <=33.01 | Pass    |
|                                    |                 |               | 13     | 22.09                 | 3.00       | 25.09      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 22.07                 | 3.00       | 25.07      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 22.06                 | 3.00       | 25.06      | <=33.01 | Pass    |
| 16QAM                              | 2575            | 1             | 0      | 22.62                 | 3.00       | 25.62      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 22.40                 | 3.00       | 25.40      | <=33.01 | Pass    |
|                                    |                 |               | 49     | 22.19                 | 3.00       | 25.19      | <=33.01 | Pass    |
|                                    |                 | 25            | 0      | 21.49                 | 3.00       | 24.49      | <=33.01 | Pass    |
|                                    |                 |               | 13     | 21.40                 | 3.00       | 24.40      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 21.34                 | 3.00       | 24.34      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 21.46                 | 3.00       | 24.46      | <=33.01 | Pass    |
|                                    | 2595            | 1             | 0      | 22.13                 | 3.00       | 25.13      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 22.09                 | 3.00       | 25.09      | <=33.01 | Pass    |
|                                    |                 |               | 49     | 22.14                 | 3.00       | 25.14      | <=33.01 | Pass    |
|                                    |                 | 25            | 0      | 21.20                 | 3.00       | 24.20      | <=33.01 | Pass    |
|                                    |                 |               | 13     | 21.14                 | 3.00       | 24.14      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 21.12                 | 3.00       | 24.12      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 21.14                 | 3.00       | 24.14      | <=33.01 | Pass    |
|                                    | 2615            | 1             | 0      | 22.18                 | 3.00       | 25.18      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 22.01                 | 3.00       | 25.01      | <=33.01 | Pass    |
|                                    |                 |               | 49     | 22.07                 | 3.00       | 25.07      | <=33.01 | Pass    |
|                                    |                 | 25            | 0      | 21.18                 | 3.00       | 24.18      | <=33.01 | Pass    |
|                                    |                 |               | 13     | 21.10                 | 3.00       | 24.10      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 21.08                 | 3.00       | 24.08      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 21.12                 | 3.00       | 24.12      | <=33.01 | Pass    |

Note1: EIRP=Conducted Power+Antenna Gain

## 1.1.3 B38\_15MHz\_EIRP

| Band: 38 / Bandwidth: 15MHz / NTNV |
|------------------------------------|
|------------------------------------|

| Modulation | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |         | Verdict |
|------------|-----------------|---------------|--------|-----------------------|------------|------------|---------|---------|
|            |                 | Size          | Offset |                       |            | Result     | Limit   |         |
| QPSK       | 2577.5          | 1             | 0      | 23.44                 | 3.00       | 26.44      | <=33.01 | Pass    |
|            |                 |               | 38     | 23.30                 | 3.00       | 26.30      | <=33.01 | Pass    |
|            |                 |               | 74     | 23.01                 | 3.00       | 26.01      | <=33.01 | Pass    |
|            |                 | 36            | 0      | 22.33                 | 3.00       | 25.33      | <=33.01 | Pass    |
|            |                 |               | 18     | 22.25                 | 3.00       | 25.25      | <=33.01 | Pass    |
|            |                 |               | 39     | 22.18                 | 3.00       | 25.18      | <=33.01 | Pass    |
|            |                 | 75            | 0      | 22.30                 | 3.00       | 25.30      | <=33.01 | Pass    |
|            |                 |               | 0      | 23.06                 | 3.00       | 26.06      | <=33.01 | Pass    |
|            |                 |               | 38     | 23.04                 | 3.00       | 26.04      | <=33.01 | Pass    |
|            | 2595            | 1             | 74     | 22.93                 | 3.00       | 25.93      | <=33.01 | Pass    |
|            |                 |               | 0      | 22.12                 | 3.00       | 25.12      | <=33.01 | Pass    |
|            |                 |               | 18     | 22.16                 | 3.00       | 25.16      | <=33.01 | Pass    |
|            |                 | 36            | 39     | 22.05                 | 3.00       | 25.05      | <=33.01 | Pass    |
|            |                 |               | 0      | 22.08                 | 3.00       | 25.08      | <=33.01 | Pass    |
|            |                 |               | 75     | 0                     | 22.08      | 25.08      | <=33.01 | Pass    |
|            |                 | 75            | 0      | 23.04                 | 3.00       | 26.04      | <=33.01 | Pass    |
|            |                 |               | 38     | 23.01                 | 3.00       | 26.01      | <=33.01 | Pass    |
|            |                 |               | 74     | 22.87                 | 3.00       | 25.87      | <=33.01 | Pass    |
|            | 2612.5          | 1             | 0      | 22.12                 | 3.00       | 25.12      | <=33.01 | Pass    |
|            |                 |               | 18     | 22.15                 | 3.00       | 25.15      | <=33.01 | Pass    |
|            |                 |               | 39     | 22.01                 | 3.00       | 25.01      | <=33.01 | Pass    |
|            |                 | 36            | 0      | 22.07                 | 3.00       | 25.07      | <=33.01 | Pass    |
|            |                 |               | 75     | 0                     | 22.07      | 25.07      | <=33.01 | Pass    |
|            |                 | 75            | 0      | 22.53                 | 3.00       | 25.53      | <=33.01 | Pass    |
|            |                 |               | 38     | 22.21                 | 3.00       | 25.21      | <=33.01 | Pass    |
|            |                 |               | 74     | 22.09                 | 3.00       | 25.09      | <=33.01 | Pass    |
|            | 2577.5          | 1             | 0      | 21.24                 | 3.00       | 24.24      | <=33.01 | Pass    |
|            |                 |               | 18     | 21.29                 | 3.00       | 24.29      | <=33.01 | Pass    |
|            |                 |               | 39     | 21.20                 | 3.00       | 24.20      | <=33.01 | Pass    |
|            |                 | 36            | 0      | 21.27                 | 3.00       | 24.27      | <=33.01 | Pass    |
|            |                 |               | 75     | 0                     | 21.27      | 24.27      | <=33.01 | Pass    |
|            |                 | 75            | 0      | 22.18                 | 3.00       | 25.18      | <=33.01 | Pass    |
|            |                 |               | 38     | 22.15                 | 3.00       | 25.15      | <=33.01 | Pass    |
|            |                 |               | 74     | 22.03                 | 3.00       | 25.03      | <=33.01 | Pass    |
|            | 2595            | 1             | 0      | 21.09                 | 3.00       | 24.09      | <=33.01 | Pass    |
|            |                 |               | 18     | 21.12                 | 3.00       | 24.12      | <=33.01 | Pass    |
|            |                 |               | 39     | 20.99                 | 3.00       | 23.99      | <=33.01 | Pass    |
|            |                 | 36            | 0      | 21.11                 | 3.00       | 24.11      | <=33.01 | Pass    |
|            |                 |               | 75     | 0                     | 21.11      | 24.11      | <=33.01 | Pass    |
|            |                 | 75            | 0      | 22.13                 | 3.00       | 25.13      | <=33.01 | Pass    |
|            |                 |               | 38     | 22.03                 | 3.00       | 25.03      | <=33.01 | Pass    |
|            |                 |               | 74     | 21.95                 | 3.00       | 24.95      | <=33.01 | Pass    |
|            | 2612.5          | 1             | 0      | 21.10                 | 3.00       | 24.10      | <=33.01 | Pass    |
|            |                 |               | 18     | 21.04                 | 3.00       | 24.04      | <=33.01 | Pass    |
|            |                 |               | 39     | 20.97                 | 3.00       | 23.97      | <=33.01 | Pass    |
|            |                 | 36            | 0      | 21.11                 | 3.00       | 24.11      | <=33.01 | Pass    |
|            |                 |               | 75     | 0                     | 21.11      | 24.11      | <=33.01 | Pass    |
|            |                 | 75            | 0      | 21.11                 | 3.00       | 24.11      | <=33.01 | Pass    |
|            |                 |               | 75     | 0                     | 21.11      | 24.11      | <=33.01 | Pass    |
|            |                 | 75            | 0      | 21.11                 | 3.00       | 24.11      | <=33.01 | Pass    |
|            |                 |               | 75     | 0                     | 21.11      | 24.11      | <=33.01 | Pass    |

Note1: EIRP=Conducted Power+Antenna Gain

## 1.1.4 B38\_20MHz\_EIRP

| Band: 38 / Bandwidth: 20MHz / NTN |                 |               |        |                       |            |            |         |         |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|---------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |         | Verdict |
|                                   |                 | Size          | Offset |                       |            | Result     | Limit   |         |
| QPSK                              | 2580            | 1             | 0      | 23.29                 | 3.00       | 26.29      | <=33.01 | Pass    |
|                                   |                 |               | 50     | 23.28                 | 3.00       | 26.28      | <=33.01 | Pass    |

|       |      |     |    |       |      |       |         |      |
|-------|------|-----|----|-------|------|-------|---------|------|
|       |      | 50  | 99 | 22.77 | 3.00 | 25.77 | <=33.01 | Pass |
|       |      |     | 0  | 22.30 | 3.00 | 25.30 | <=33.01 | Pass |
|       |      |     | 25 | 22.23 | 3.00 | 25.23 | <=33.01 | Pass |
|       |      |     | 50 | 22.10 | 3.00 | 25.10 | <=33.01 | Pass |
|       |      | 100 | 0  | 22.24 | 3.00 | 25.24 | <=33.01 | Pass |
|       |      | 1   | 0  | 22.96 | 3.00 | 25.96 | <=33.01 | Pass |
|       |      |     | 50 | 23.12 | 3.00 | 26.12 | <=33.01 | Pass |
|       |      |     | 99 | 22.78 | 3.00 | 25.78 | <=33.01 | Pass |
|       |      |     | 0  | 22.13 | 3.00 | 25.13 | <=33.01 | Pass |
|       |      | 50  | 25 | 22.05 | 3.00 | 25.05 | <=33.01 | Pass |
|       |      |     | 50 | 21.98 | 3.00 | 24.98 | <=33.01 | Pass |
|       |      |     | 0  | 22.13 | 3.00 | 25.13 | <=33.01 | Pass |
|       |      | 100 | 0  | 22.13 | 3.00 | 25.13 | <=33.01 | Pass |
|       | 2610 | 1   | 0  | 22.86 | 3.00 | 25.86 | <=33.01 | Pass |
|       |      |     | 50 | 23.11 | 3.00 | 26.11 | <=33.01 | Pass |
|       |      |     | 99 | 22.71 | 3.00 | 25.71 | <=33.01 | Pass |
|       |      |     | 0  | 22.04 | 3.00 | 25.04 | <=33.01 | Pass |
|       |      | 50  | 25 | 22.05 | 3.00 | 25.05 | <=33.01 | Pass |
|       |      |     | 50 | 21.96 | 3.00 | 24.96 | <=33.01 | Pass |
|       |      |     | 0  | 22.07 | 3.00 | 25.07 | <=33.01 | Pass |
|       |      |     | 0  | 22.36 | 3.00 | 25.36 | <=33.01 | Pass |
|       |      | 50  | 50 | 22.40 | 3.00 | 25.40 | <=33.01 | Pass |
|       |      |     | 99 | 21.86 | 3.00 | 24.86 | <=33.01 | Pass |
|       |      |     | 0  | 21.38 | 3.00 | 24.38 | <=33.01 | Pass |
|       |      |     | 25 | 21.25 | 3.00 | 24.25 | <=33.01 | Pass |
| 16QAM | 2580 | 1   | 50 | 21.14 | 3.00 | 24.14 | <=33.01 | Pass |
|       |      |     | 0  | 21.33 | 3.00 | 24.33 | <=33.01 | Pass |
|       |      |     | 0  | 21.89 | 3.00 | 24.89 | <=33.01 | Pass |
|       |      |     | 50 | 22.14 | 3.00 | 25.14 | <=33.01 | Pass |
|       |      | 50  | 99 | 21.82 | 3.00 | 24.82 | <=33.01 | Pass |
|       |      |     | 0  | 21.12 | 3.00 | 24.12 | <=33.01 | Pass |
|       |      |     | 25 | 21.15 | 3.00 | 24.15 | <=33.01 | Pass |
|       |      |     | 50 | 21.06 | 3.00 | 24.06 | <=33.01 | Pass |
|       |      | 100 | 0  | 21.09 | 3.00 | 24.09 | <=33.01 | Pass |
|       | 2595 | 1   | 0  | 21.73 | 3.00 | 24.73 | <=33.01 | Pass |
|       |      |     | 50 | 22.19 | 3.00 | 25.19 | <=33.01 | Pass |
|       |      |     | 99 | 21.61 | 3.00 | 24.61 | <=33.01 | Pass |
|       |      |     | 0  | 21.13 | 3.00 | 24.13 | <=33.01 | Pass |
|       |      | 50  | 25 | 21.12 | 3.00 | 24.12 | <=33.01 | Pass |
|       |      |     | 50 | 21.01 | 3.00 | 24.01 | <=33.01 | Pass |
|       |      |     | 0  | 21.11 | 3.00 | 24.11 | <=33.01 | Pass |
|       |      |     | 0  | 21.11 | 3.00 | 24.11 | <=33.01 | Pass |
|       |      | 100 | 0  | 21.11 | 3.00 | 24.11 | <=33.01 | Pass |
|       | 2610 | 1   | 0  | 21.73 | 3.00 | 24.73 | <=33.01 | Pass |
|       |      |     | 50 | 22.19 | 3.00 | 25.19 | <=33.01 | Pass |
|       |      |     | 99 | 21.61 | 3.00 | 24.61 | <=33.01 | Pass |
|       |      |     | 0  | 21.13 | 3.00 | 24.13 | <=33.01 | Pass |
|       |      | 50  | 25 | 21.12 | 3.00 | 24.12 | <=33.01 | Pass |
|       |      |     | 50 | 21.01 | 3.00 | 24.01 | <=33.01 | Pass |
|       |      |     | 0  | 21.11 | 3.00 | 24.11 | <=33.01 | Pass |
|       |      |     | 0  | 21.11 | 3.00 | 24.11 | <=33.01 | Pass |
|       |      | 100 | 0  | 21.11 | 3.00 | 24.11 | <=33.01 | Pass |
|       |      | 1   | 0  | 21.73 | 3.00 | 24.73 | <=33.01 | Pass |
|       |      |     | 50 | 22.19 | 3.00 | 25.19 | <=33.01 | Pass |
|       |      |     | 99 | 21.61 | 3.00 | 24.61 | <=33.01 | Pass |
|       |      |     | 0  | 21.13 | 3.00 | 24.13 | <=33.01 | Pass |
|       |      | 50  | 25 | 21.12 | 3.00 | 24.12 | <=33.01 | Pass |
|       |      |     | 50 | 21.01 | 3.00 | 24.01 | <=33.01 | Pass |
|       |      |     | 0  | 21.11 | 3.00 | 24.11 | <=33.01 | Pass |
|       |      |     | 0  | 21.11 | 3.00 | 24.11 | <=33.01 | Pass |
|       |      | 100 | 0  | 21.11 | 3.00 | 24.11 | <=33.01 | Pass |

Note1: EIRP=Conducted Power+Antenna Gain

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B38\_10MHz

| Band: 38 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 2595            | 50            | 0      | 20         | 9             | 12.200           | 0.0047                | -2.5 to 2.5 | Pass    |



|  |  |  |  |     |    |         |         |             |      |
|--|--|--|--|-----|----|---------|---------|-------------|------|
|  |  |  |  |     | 19 | -11.200 | -0.0043 | -2.5 to 2.5 | Pass |
|  |  |  |  |     | 30 | -7.000  | -0.0027 | -2.5 to 2.5 | Pass |
|  |  |  |  | -30 | 19 | -6.400  | -0.0025 | -2.5 to 2.5 | Pass |
|  |  |  |  | -20 | 19 | -5.900  | -0.0023 | -2.5 to 2.5 | Pass |
|  |  |  |  | -10 | 19 | -23.000 | -0.0089 | -2.5 to 2.5 | Pass |
|  |  |  |  | 0   | 19 | -13.700 | -0.0053 | -2.5 to 2.5 | Pass |
|  |  |  |  | 10  | 19 | -19.100 | -0.0074 | -2.5 to 2.5 | Pass |
|  |  |  |  | 30  | 19 | -14.100 | -0.0054 | -2.5 to 2.5 | Pass |
|  |  |  |  | 40  | 19 | -3.000  | -0.0012 | -2.5 to 2.5 | Pass |
|  |  |  |  | 50  | 19 | -18.100 | -0.0070 | -2.5 to 2.5 | Pass |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 Band38\_OBW

| Band: 38 / NTNV |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 5               | QPSK       | 2595            | 25            | 0      | 4.538                        | /     | Pass    |
|                 | 16QAM      | 2595            | 25            | 0      | 4.554                        | /     | Pass    |
| 10              | QPSK       | 2595            | 50            | 0      | 9.075                        | /     | Pass    |
|                 | 16QAM      | 2595            | 50            | 0      | 9.049                        | /     | Pass    |
| 15              | QPSK       | 2595            | 75            | 0      | 13.596                       | /     | Pass    |
|                 | 16QAM      | 2595            | 75            | 0      | 13.605                       | /     | Pass    |
| 20              | QPSK       | 2595            | 100           | 0      | 18.056                       | /     | Pass    |
|                 | 16QAM      | 2595            | 100           | 0      | 18.119                       | /     | Pass    |

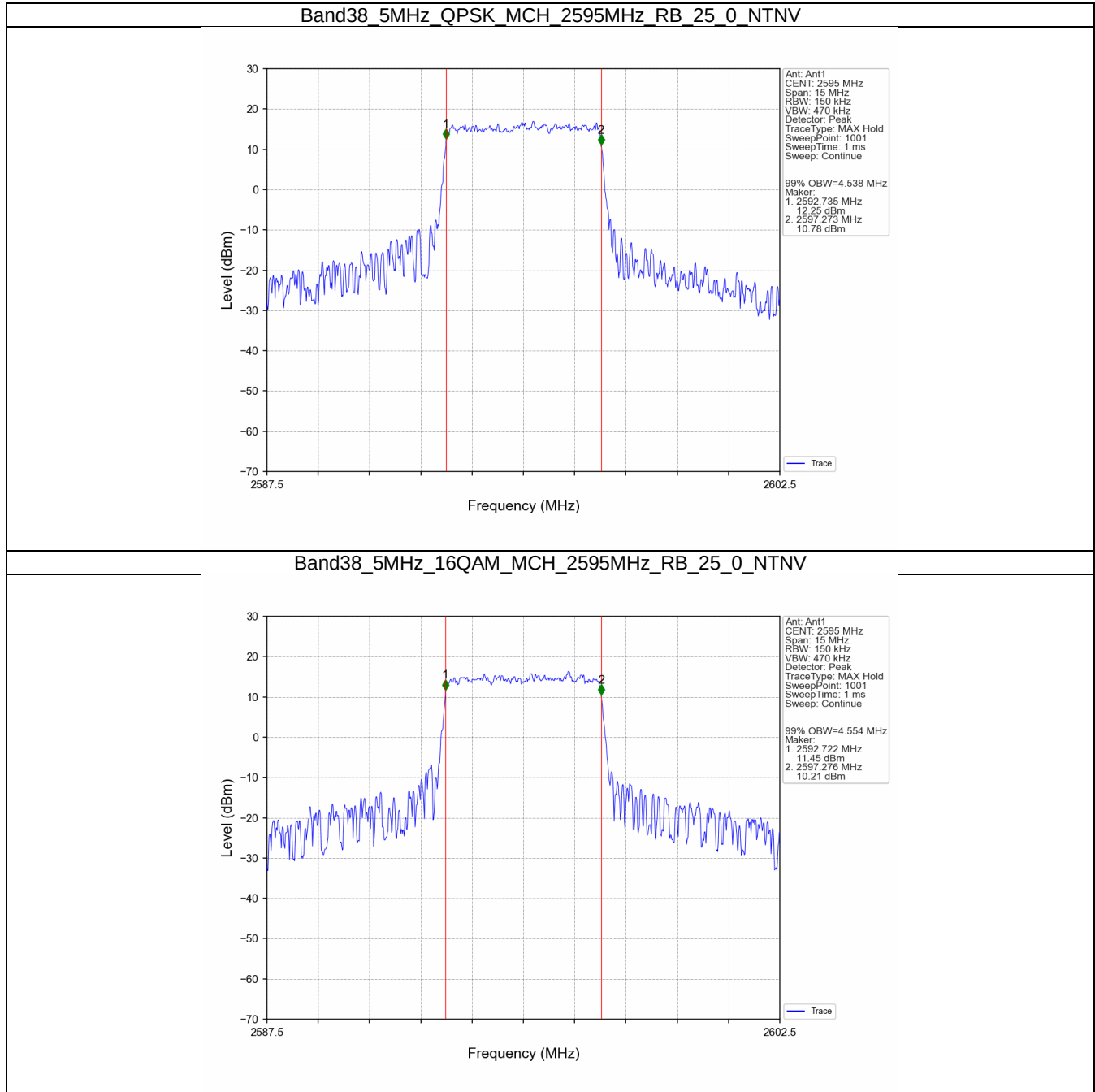
##### 3.1.2 Band38\_XDB

| Band: 38 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 5               | QPSK       | 2595            | 25            | 0      | 5.283                | /     | Pass    |
|                 | 16QAM      | 2595            | 25            | 0      | 5.468                | /     | Pass    |
| 10              | QPSK       | 2595            | 50            | 0      | 10.362               | /     | Pass    |
|                 | 16QAM      | 2595            | 50            | 0      | 10.384               | /     | Pass    |
| 15              | QPSK       | 2595            | 75            | 0      | 15.953               | /     | Pass    |
|                 | 16QAM      | 2595            | 75            | 0      | 16.451               | /     | Pass    |
| 20              | QPSK       | 2595            | 100           | 0      | 19.594               | /     | Pass    |
|                 | 16QAM      | 2595            | 100           | 0      | 20.638               | /     | Pass    |



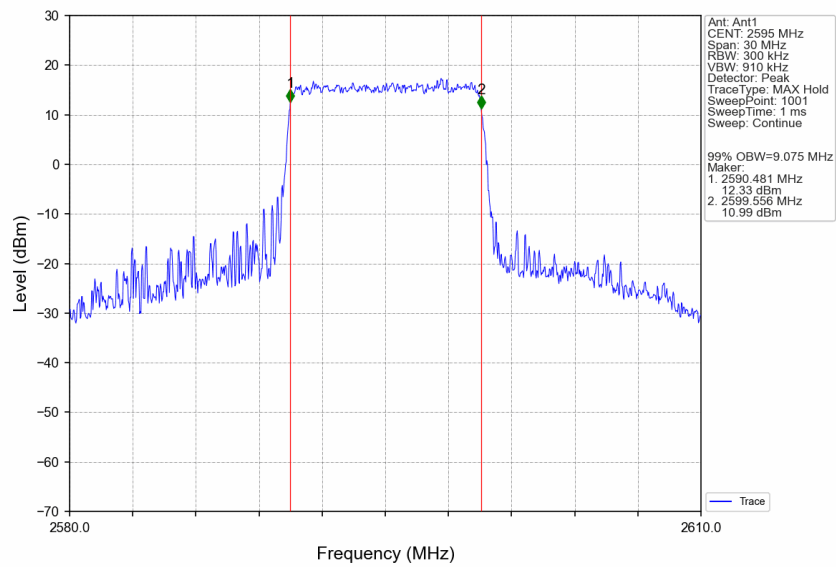
## 3.2 Test Graph

### 3.2.1 Band38\_OBW

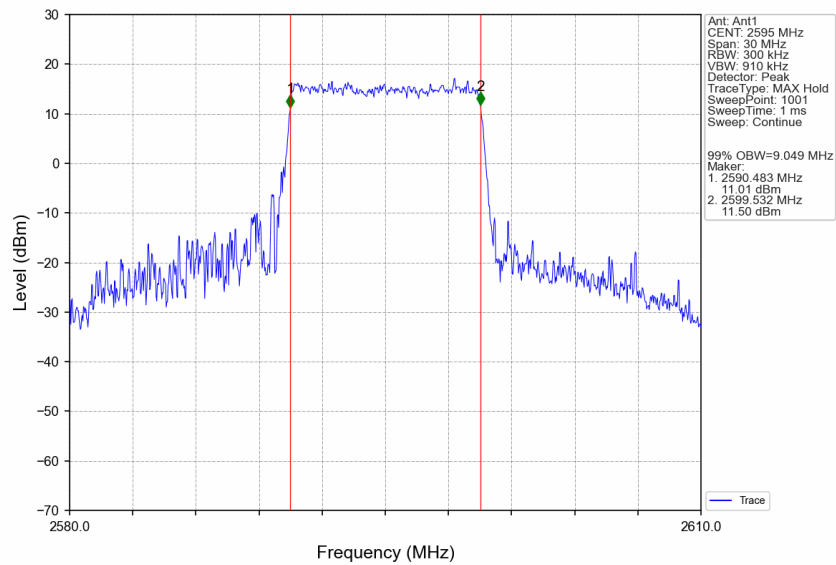




Band38\_10MHz\_QPSK\_MCH\_2595MHz\_RB\_50\_0\_NTNV

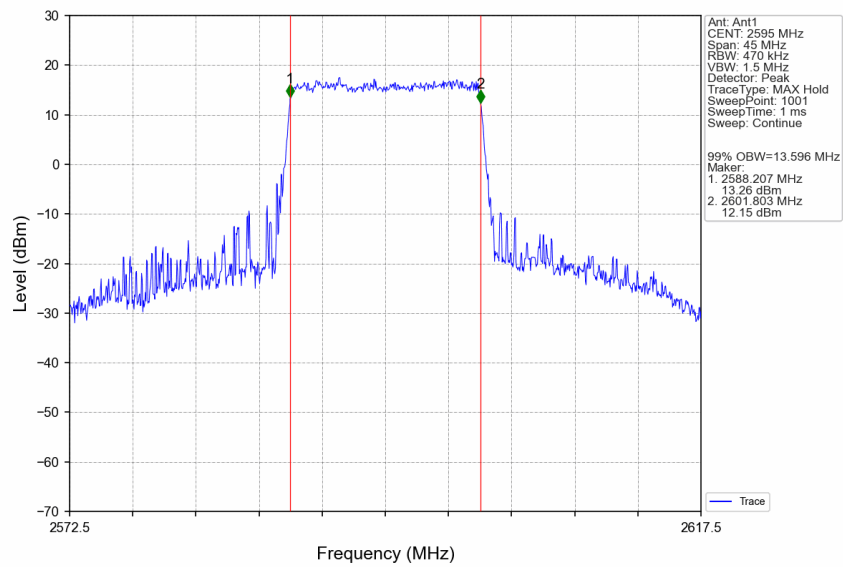


Band38 10MHz 16QAM MCH 2595MHz RB 50 0 NTN

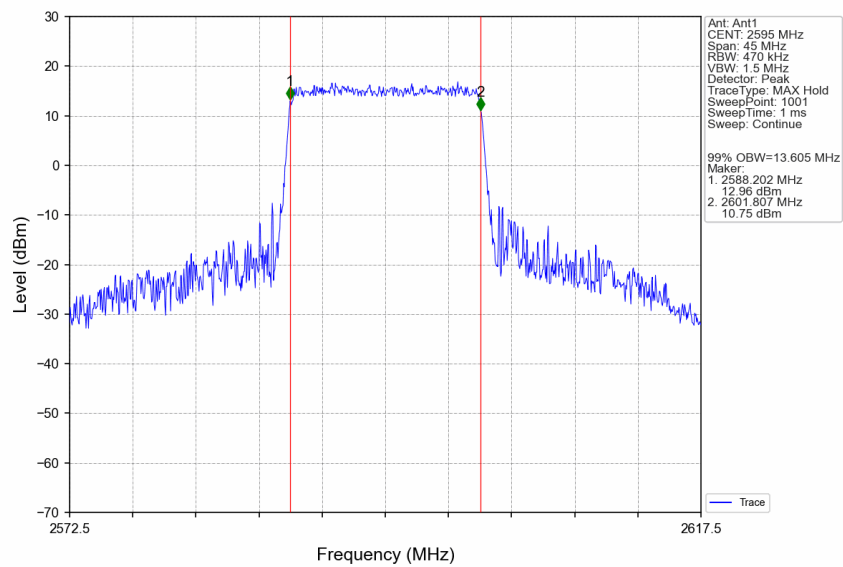




Band38\_15MHz\_QPSK\_MCH\_2595MHz\_RB\_75\_0\_NTNV



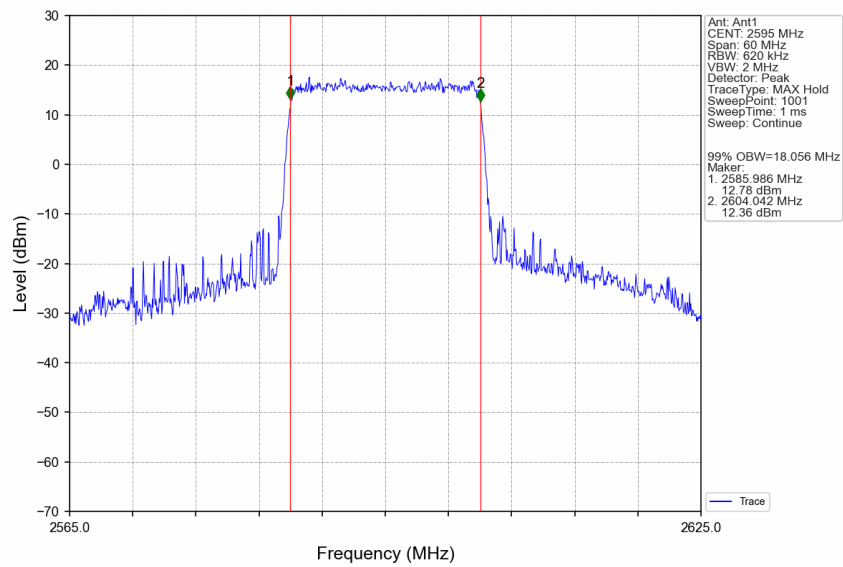
Band38 15MHz 16QAM MCH 2595MHz RB 75 0 NTNv



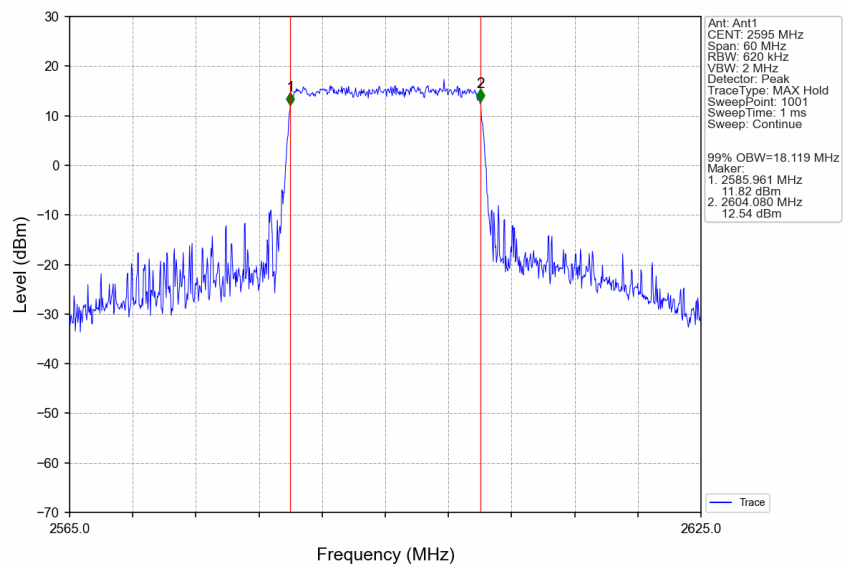




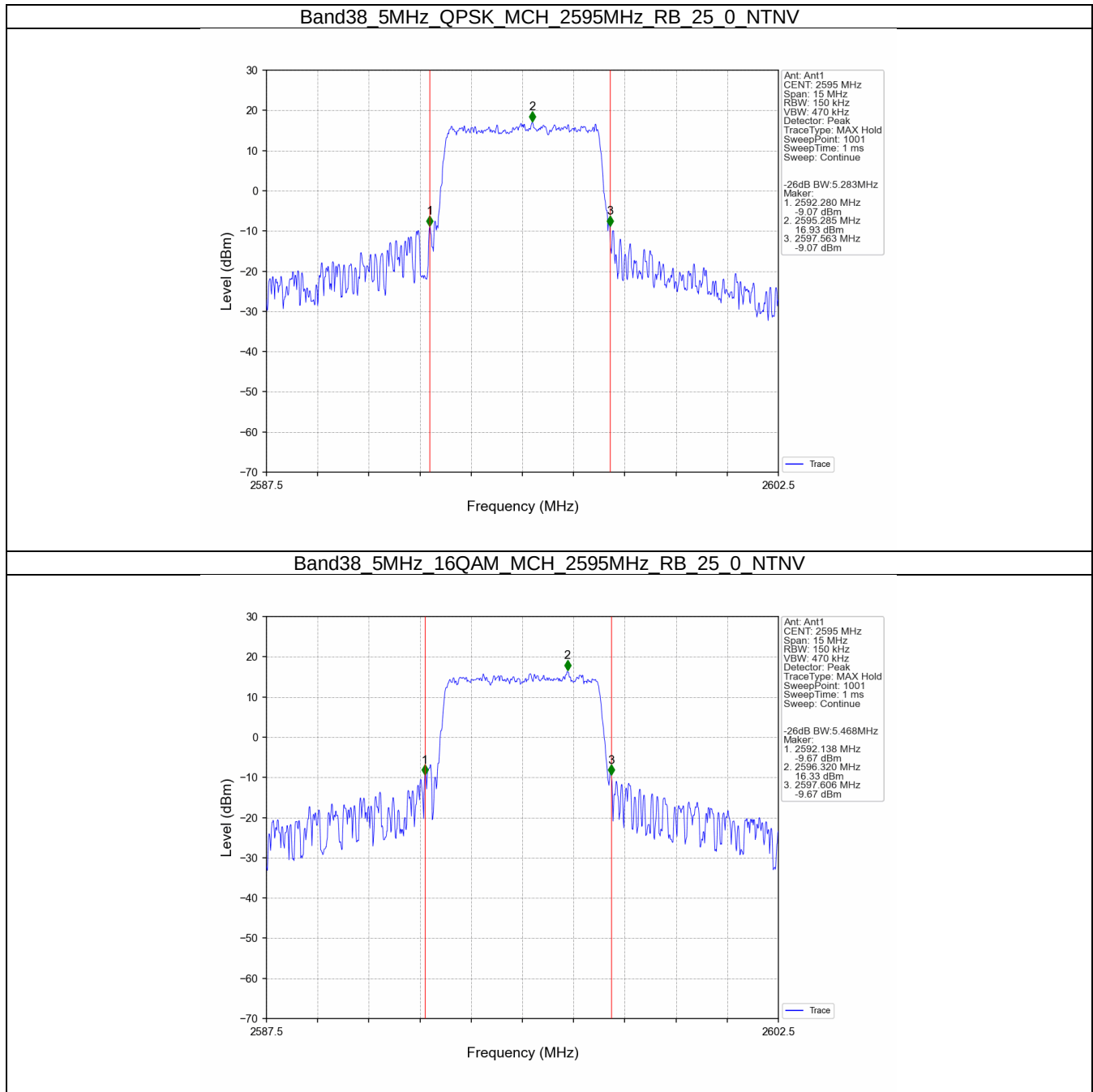
Band38\_20MHz\_QPSK\_MCH\_2595MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_16QAM\_MCH\_2595MHz\_RB\_100\_0\_NTNV

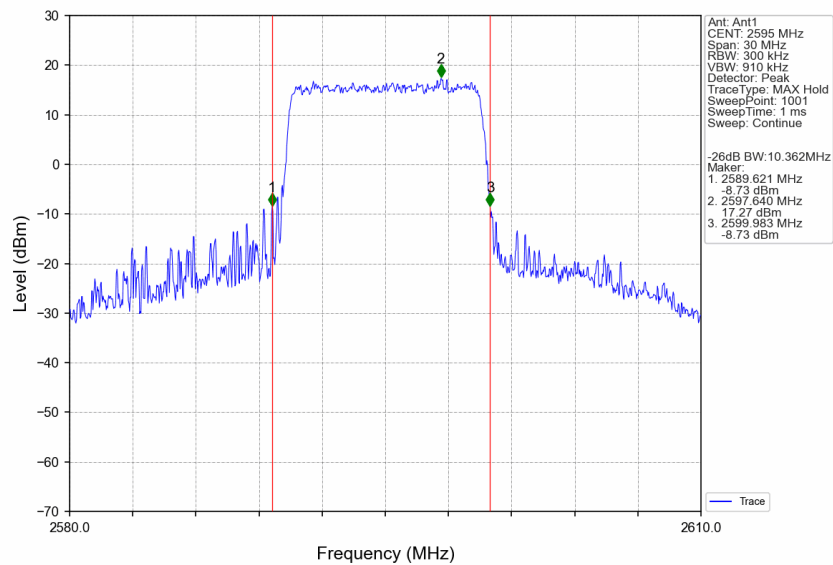


## 3.2.2 Band38\_XDB

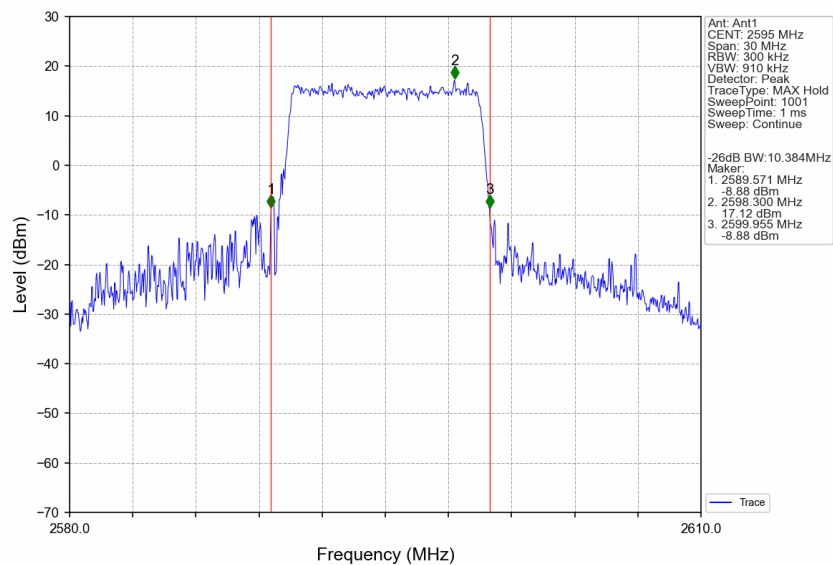




Band38\_10MHz\_QPSK\_MCH\_2595MHz\_RB\_50\_0\_NTNV

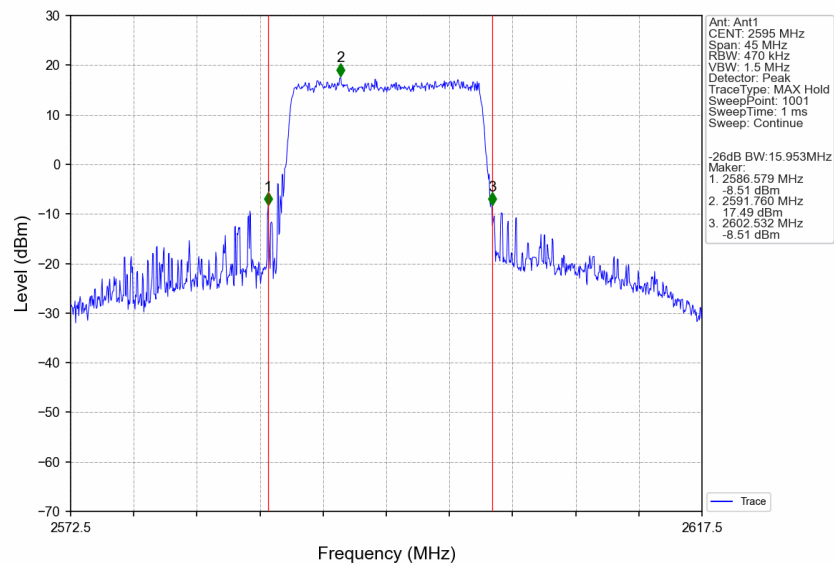


Band38 10MHz 16QAM MCH 2595MHz RB 50 0 NTN

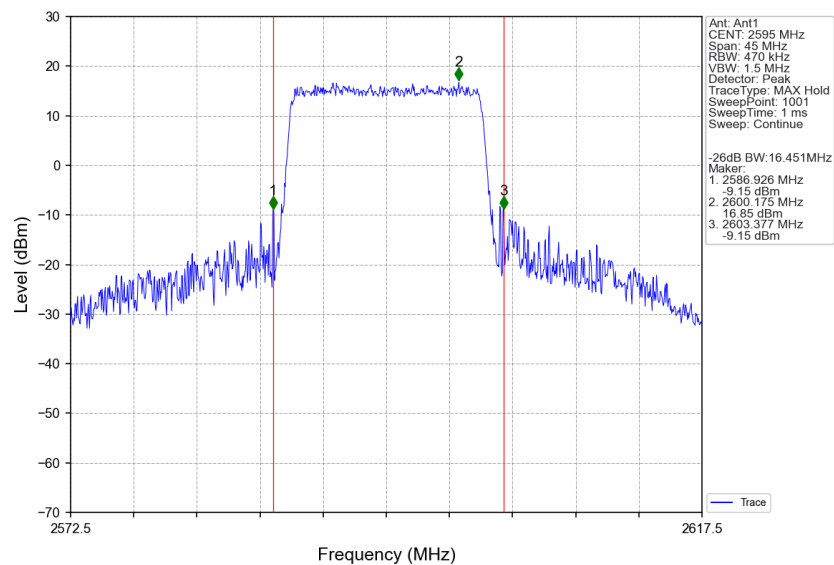




Band38\_15MHz\_QPSK\_MCH\_2595MHz\_RB\_75\_0\_NTNV

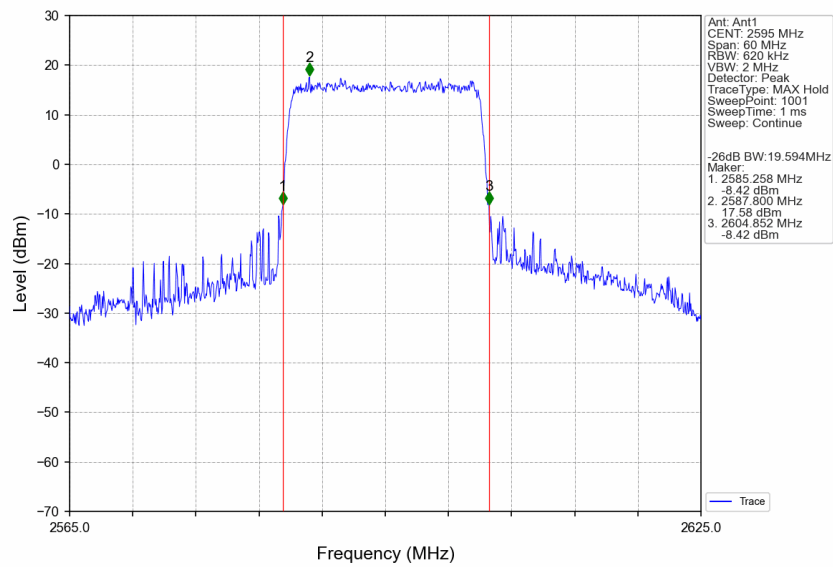


Band38\_15MHz\_16QAM\_MCH\_2595MHz\_RB\_75\_0\_NTNV

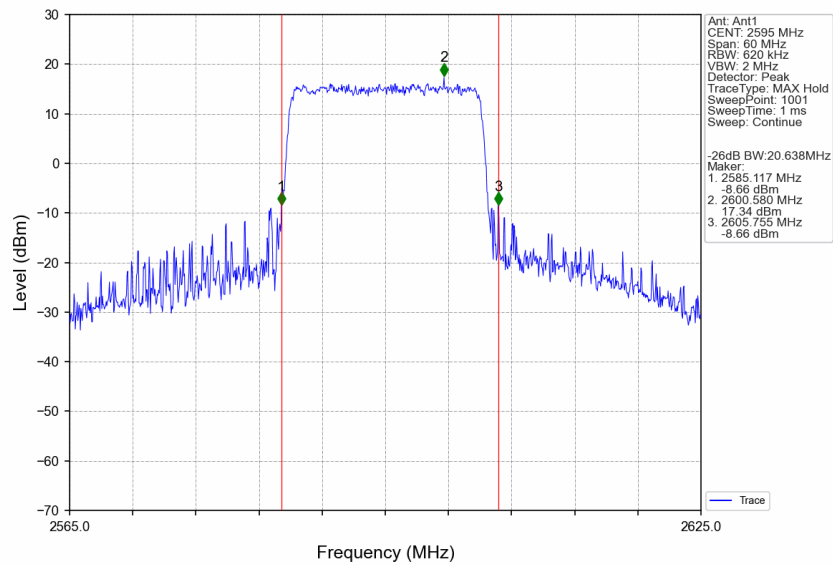




Band38\_20MHz\_QPSK\_MCH\_2595MHz\_RB\_100\_0\_NTNV



Band38\_20MHz\_16QAM\_MCH\_2595MHz\_RB\_100\_0\_NTNV





#### 4. Peak-Average Ratio

##### 4.1 Test Result

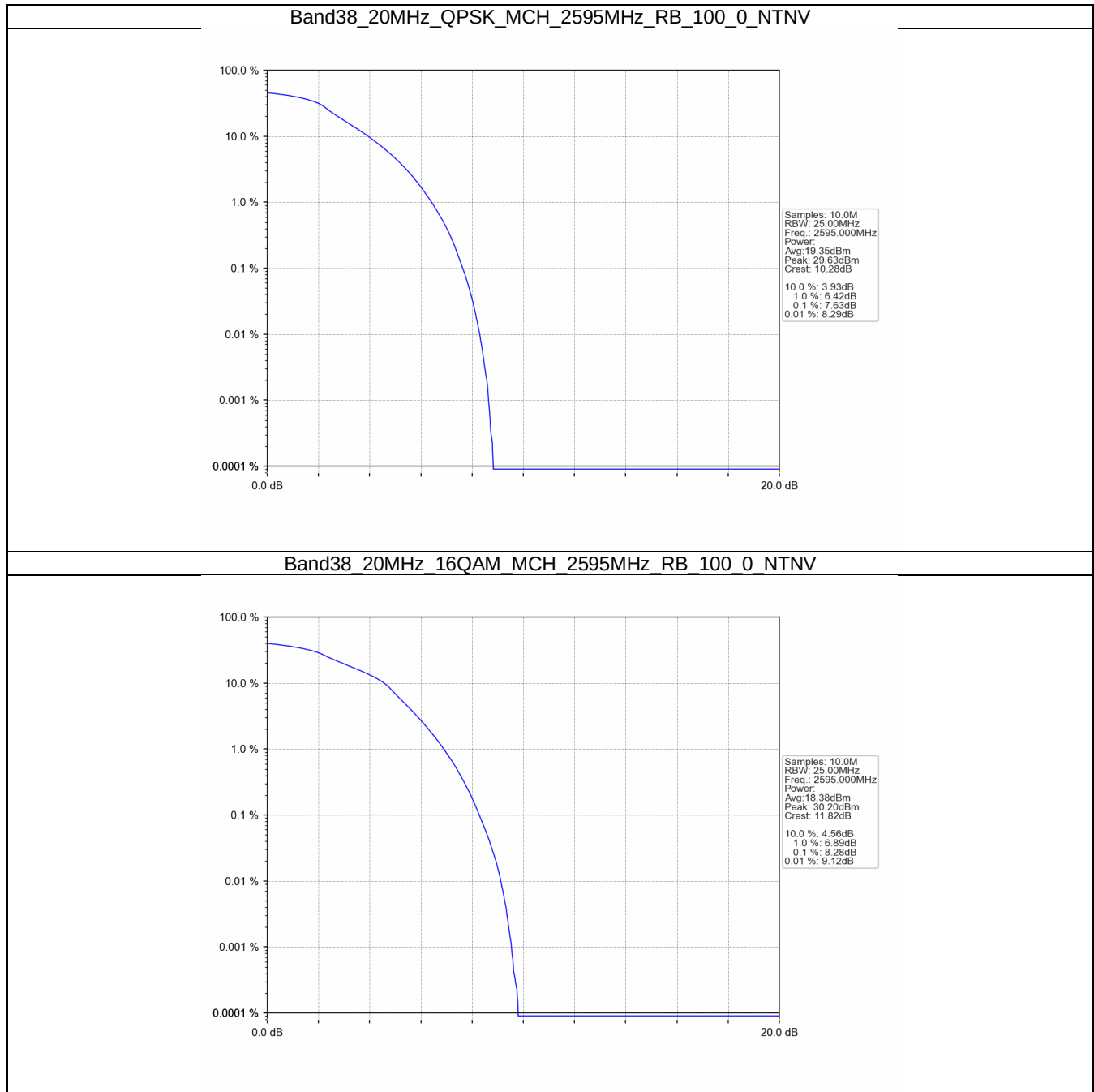
##### 4.1.1 B38\_20MHz

| Band: 38 / Bandwidth: 20MHz / NTNV |                    |               |        |                         |       |         |
|------------------------------------|--------------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency<br>(MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                    | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 2595               | 100           | 0      | 7.63                    | <=13  | Pass    |
| 16QAM                              | 2595               | 100           | 0      | 8.28                    | <=13  | Pass    |



## 4.2 Test Graph

### 4.2.1 B38\_20MHz





## 5. Spurious Emission

### 5.1 Test Result

#### 5.1.1 B38\_5MHz

| Band: 38 / Bandwidth: 5MHz / NTV |                 |               |        |                     |       |         |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                  |                 | Size          | Offset | Result              | Limit |         |
| QPSK                             | 2572.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
|                                  | 2595            | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  | 2617.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 24     | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |

#### 5.1.2 B38\_10MHz

| Band: 38 / Bandwidth: 10MHz / NTNV |                 |               |        |                     |       |         |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                    |                 | Size          | Offset | Result              | Limit |         |
| QPSK                               | 2575            | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    |                 | 50            | 0      | Refer To Test Graph |       | Pass    |
|                                    | 2595            | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    | 2615            | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    |                 |               | 49     | Refer To Test Graph |       | Pass    |
|                                    |                 | 50            | 0      | Refer To Test Graph |       | Pass    |

#### 5.1.3 B38\_15MHz

| Band: 38 / Bandwidth: 15MHz / NTNV |                 |               |        |                     |       |         |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                    |                 | Size          | Offset | Result              | Limit |         |
| QPSK                               | 2577.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    |                 | 75            | 0      | Refer To Test Graph |       | Pass    |
|                                    | 2595            | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    | 2612.5          | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    |                 |               | 74     | Refer To Test Graph |       | Pass    |
|                                    |                 | 75            | 0      | Refer To Test Graph |       | Pass    |

#### 5.1.4 B38\_20MHz

| Band: 38 / Bandwidth: 20MHz / NTNV |                 |               |        |                     |       |         |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                    |                 | Size          | Offset | Result              | Limit |         |
| QPSK                               | 2580            | 1             | 0      | Refer To Test Graph |       | Pass    |





## Compliance Certification Services (Kunshan) Inc.

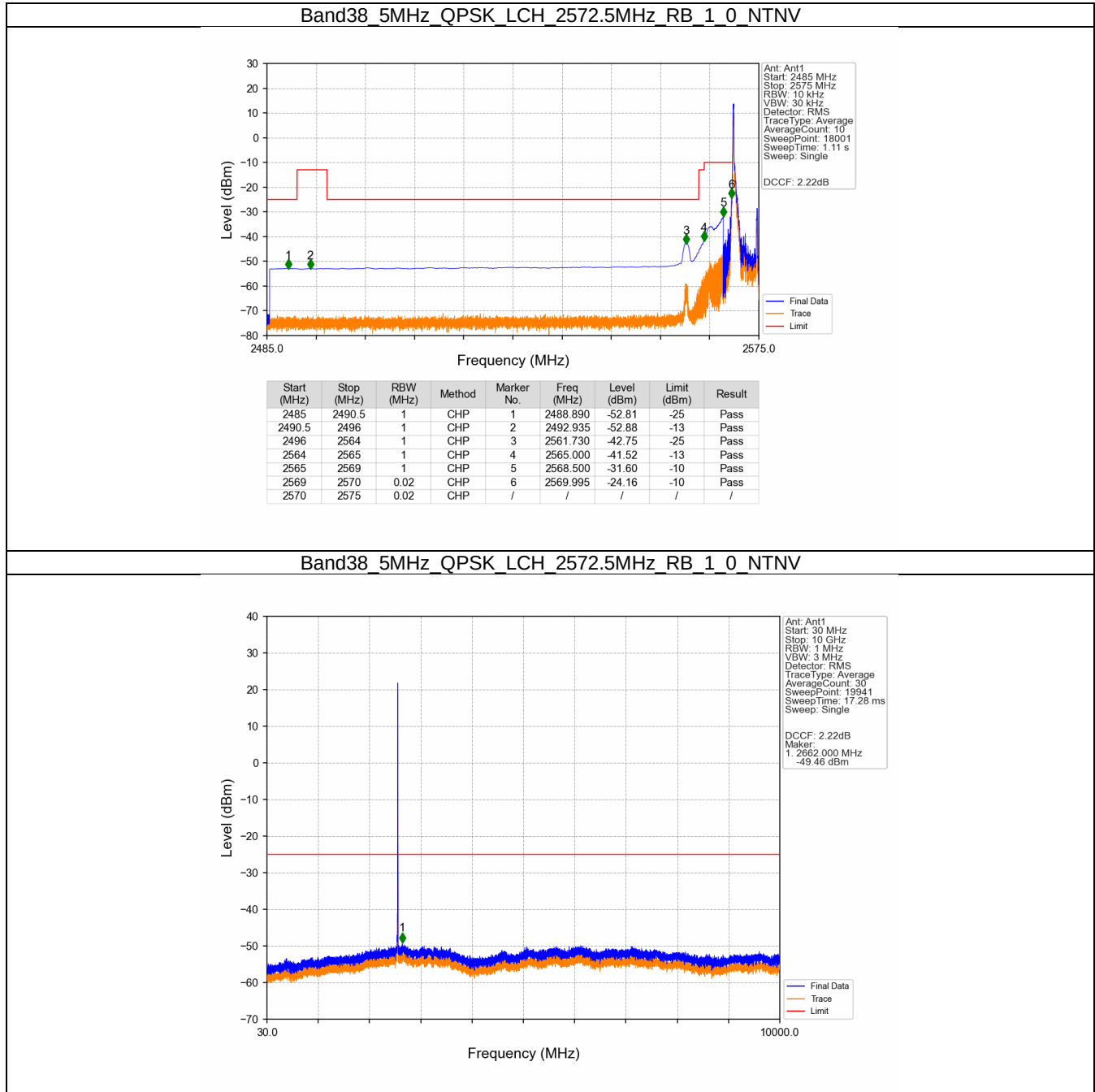
17 of 45

|  |      |     |    |                     |      |
|--|------|-----|----|---------------------|------|
|  |      | 100 | 0  | Refer To Test Graph | Pass |
|  | 2595 | 1   | 0  | Refer To Test Graph | Pass |
|  | 2610 | 1   | 0  | Refer To Test Graph | Pass |
|  |      |     | 99 | Refer To Test Graph | Pass |
|  |      | 100 | 0  | Refer To Test Graph | Pass |



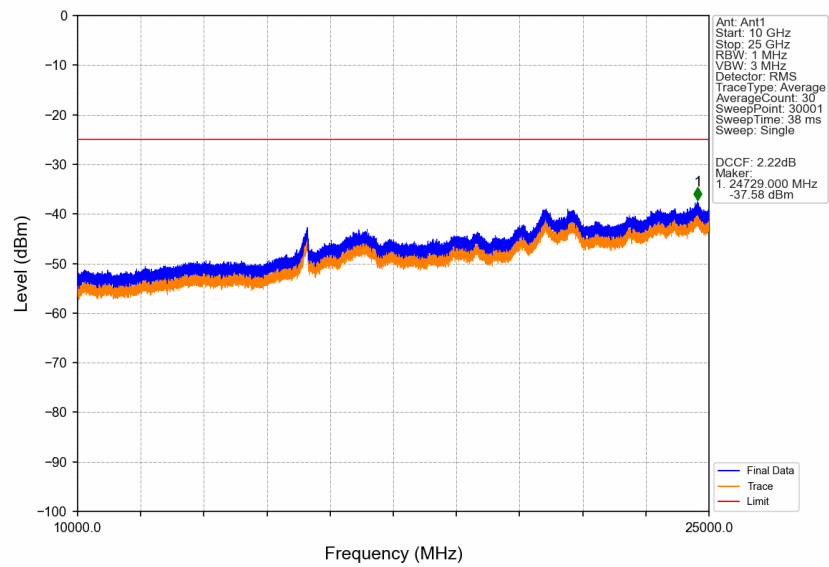
## 5.2 Test Graph

### 5.2.1 B38\_5MHz

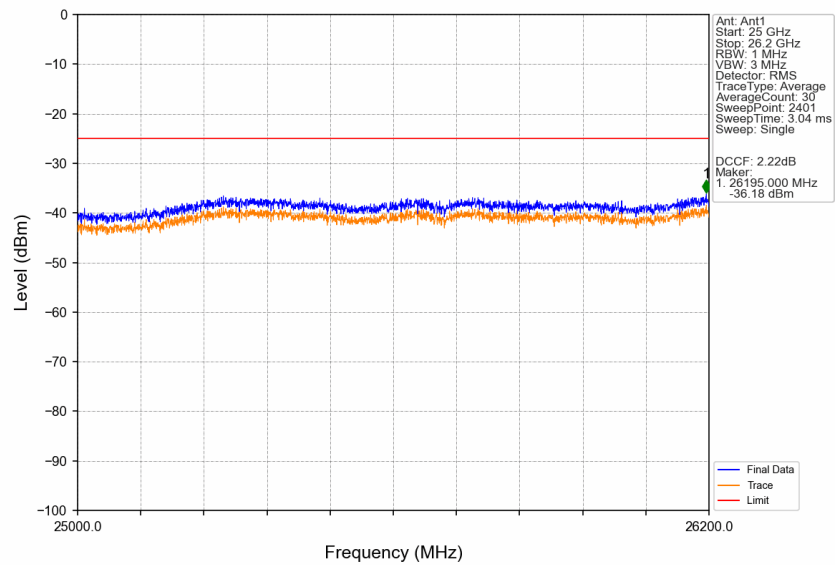




Band38\_5MHz\_QPSK\_LCH\_2572.5MHz\_RB\_1\_0\_NTNV

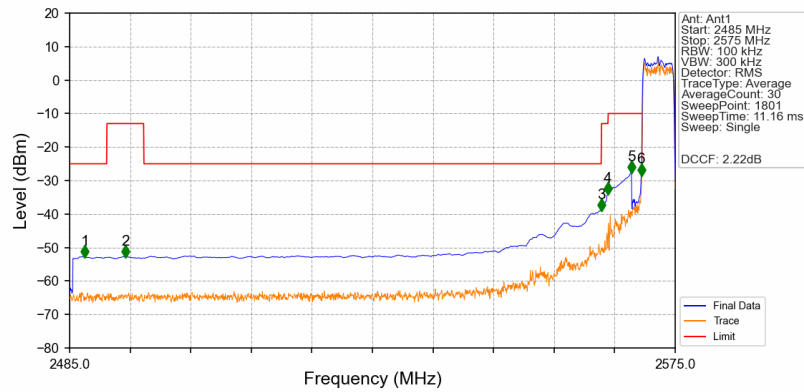


Band38 5MHz QPSK LCH 2572.5MHz RB 1 0 NTNv



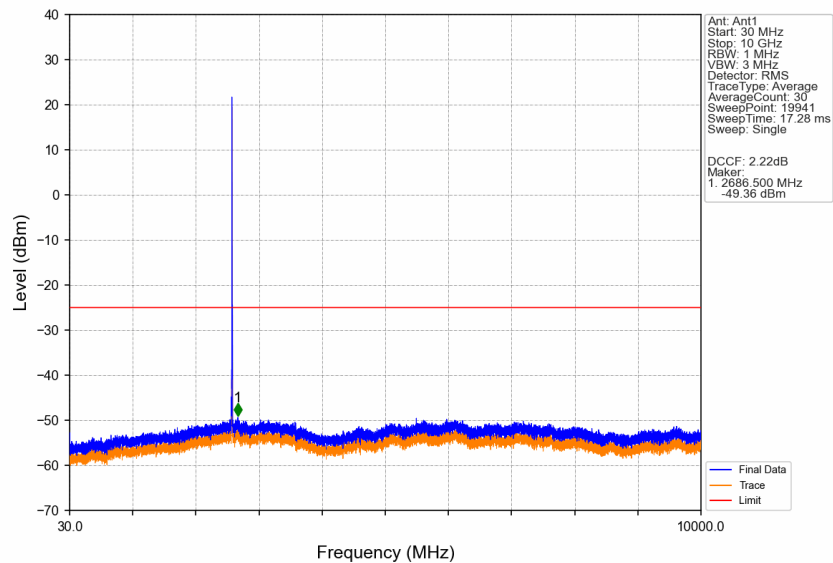


Band38\_5MHz\_QPSK\_LCH\_2572.5MHz\_RB\_25\_0\_NTNV



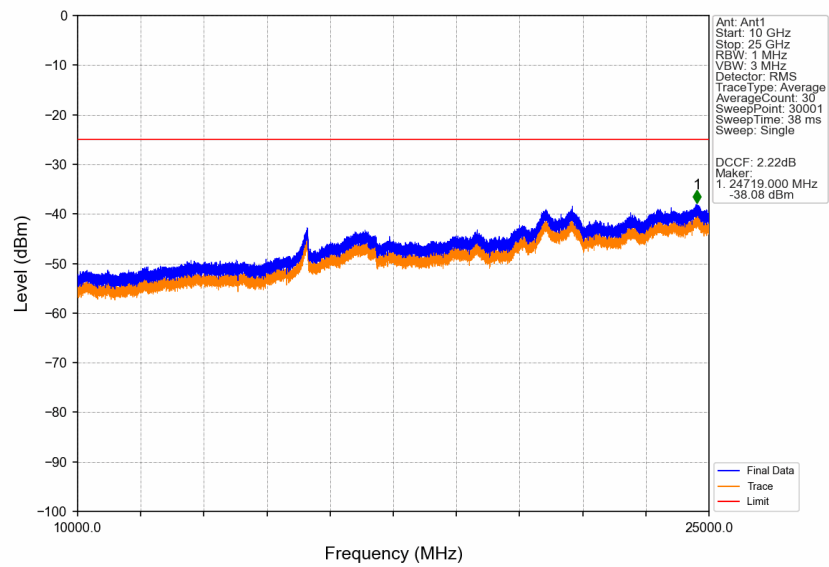
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2485        | 2490.5     | 1         | CHP    | 1          | 2487.250   | -52.74      | -25         | Pass   |
| 2490.5      | 2496       | 1         | CHP    | 2          | 2493.300   | -52.70      | -13         | Pass   |
| 2496        | 2564       | 1         | CHP    | 3          | 2564.000   | -38.91      | -25         | Pass   |
| 2564        | 2565       | 1         | CHP    | 4          | 2565.000   | -33.97      | -13         | Pass   |
| 2565        | 2569       | 1         | CHP    | 5          | 2568.500   | -27.49      | -10         | Pass   |
| 2569        | 2570       | 0.109     | CHP    | 6          | 2569.950   | -28.30      | -10         | Pass   |
| 2570        | 2575       | 0.109     | CHP    | /          | /          | /           | /           | /      |

Band38 5MHz QPSK MCH 2595MHz RB 1 0 NTNv

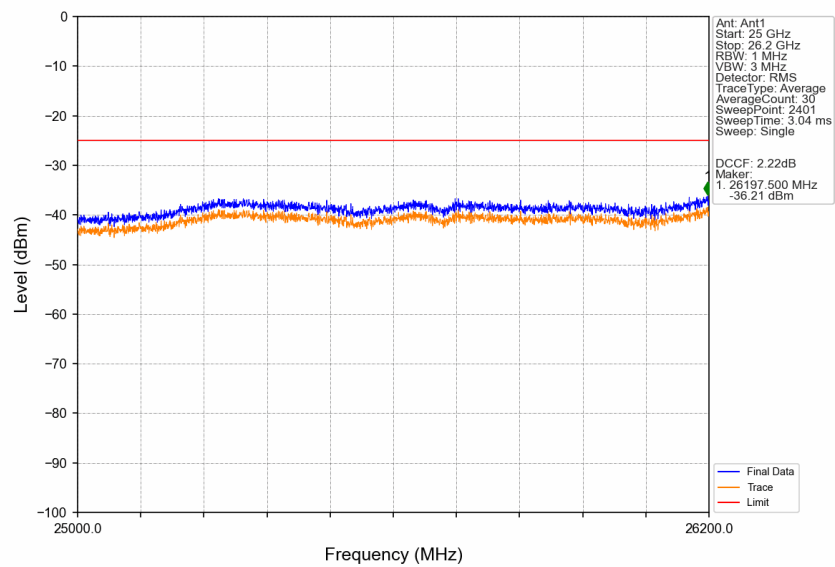




Band38\_5MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTNV

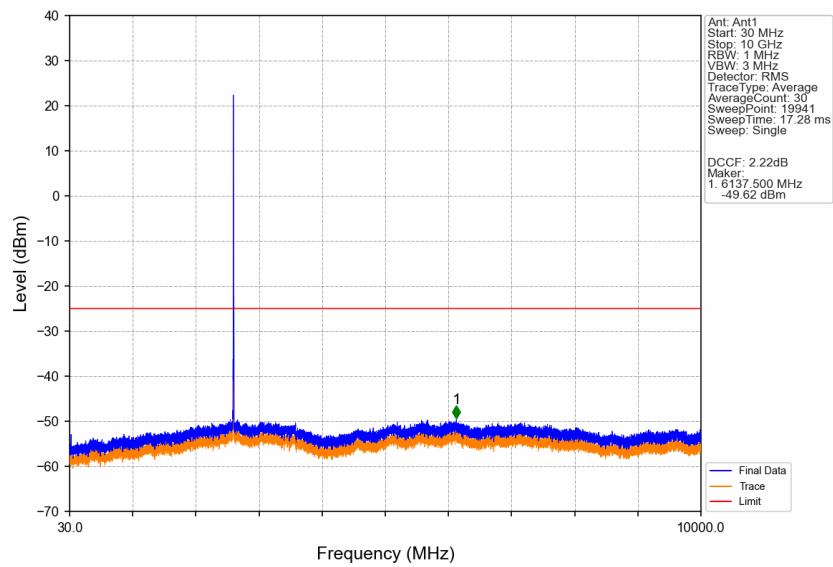


Band38\_5MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTNV

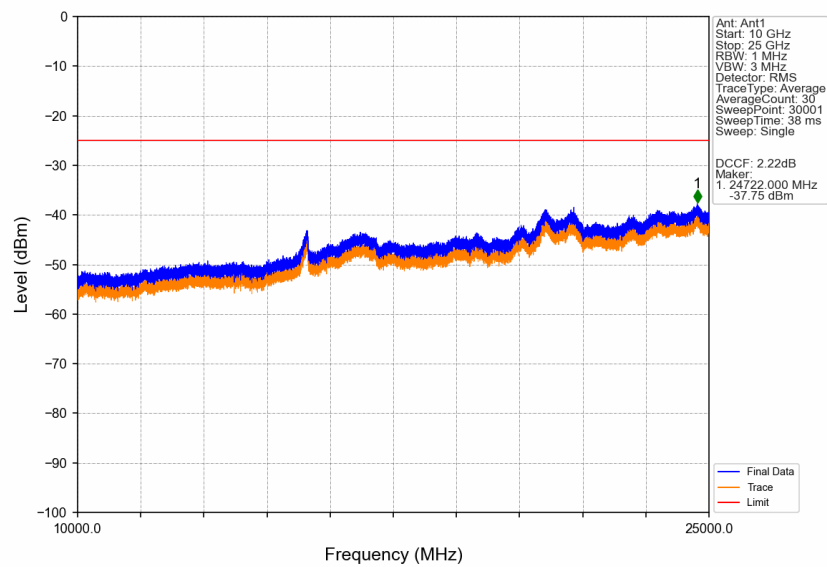




Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_1\_0\_NTNV

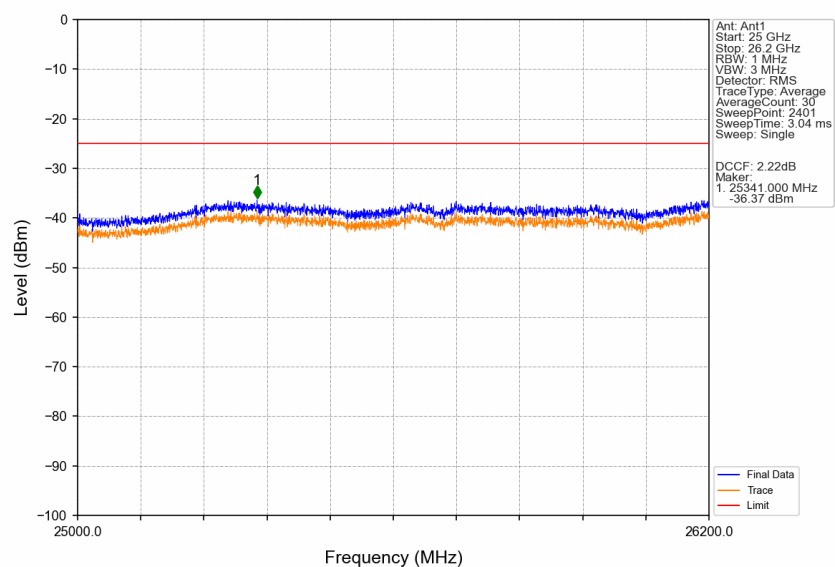


Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_1\_0\_NTNV

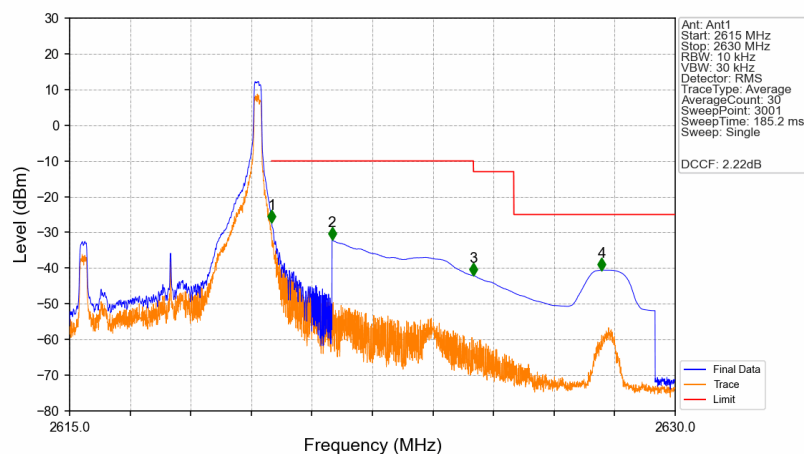




Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_1\_0\_NTNV

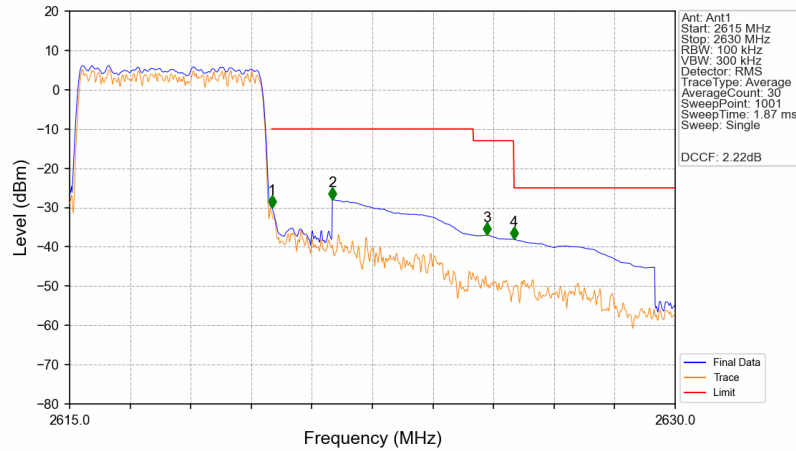


Band38 5MHz QPSK HCH 2617.5MHz RB 1 24 NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2615        | 2620       | 0.02      | CHP    | /          | /          | /           | /           | /      |
| 2620        | 2621       | 0.02      | CHP    | 1          | 2620.005   | -27.21      | -10         | Pass   |
| 2621        | 2625       | 1         | CHP    | 2          | 2621.500   | -32.03      | -10         | Pass   |
| 2625        | 2626       | 1         | CHP    | 3          | 2625.005   | -42.15      | -13         | Pass   |
| 2626        | 2630       | 1         | CHP    | 4          | 2628.180   | -40.58      | -25         | Pass   |

Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV

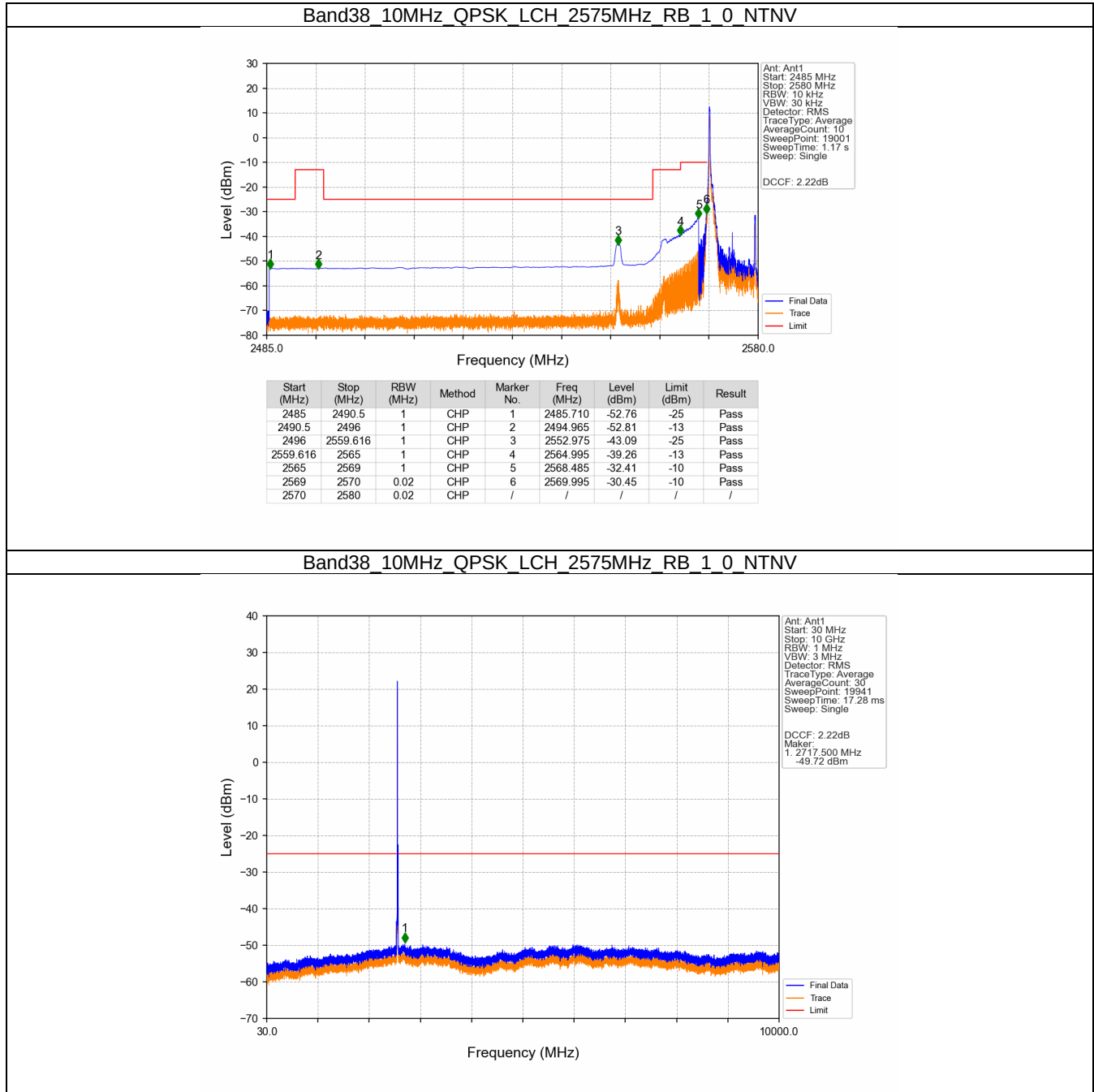


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2615        | 2620       | 0.106     | CHP    | /          | /          | /           | /           | /      |
| 2620        | 2621       | 0.106     | CHP    | 1          | 2620.010   | -30.08      | -10         | Pass   |
| 2621        | 2625       | 1         | CHP    | 2          | 2621.510   | -28.00      | -10         | Pass   |
| 2625        | 2626       | 1         | CHP    | 3          | 2625.335   | -36.98      | -13         | Pass   |
| 2626        | 2630       | 1         | CHP    | 4          | 2626.010   | -38.13      | -25         | Pass   |

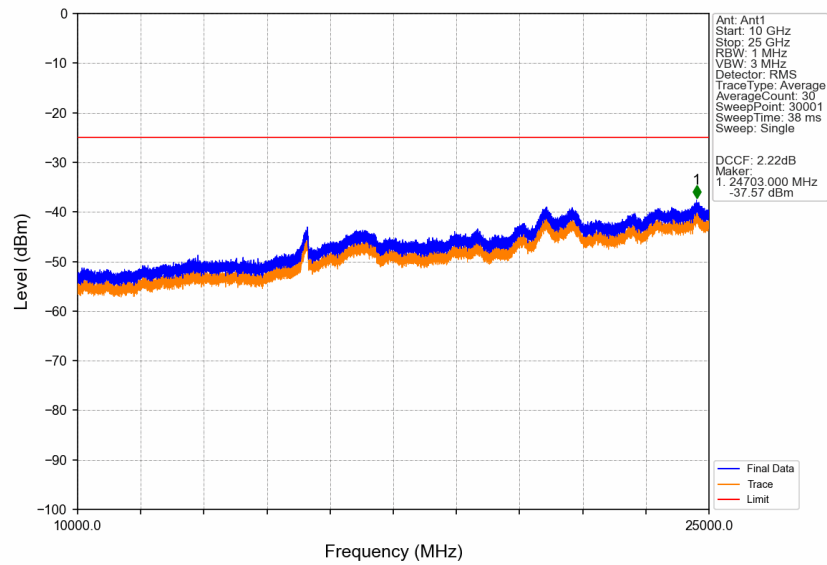




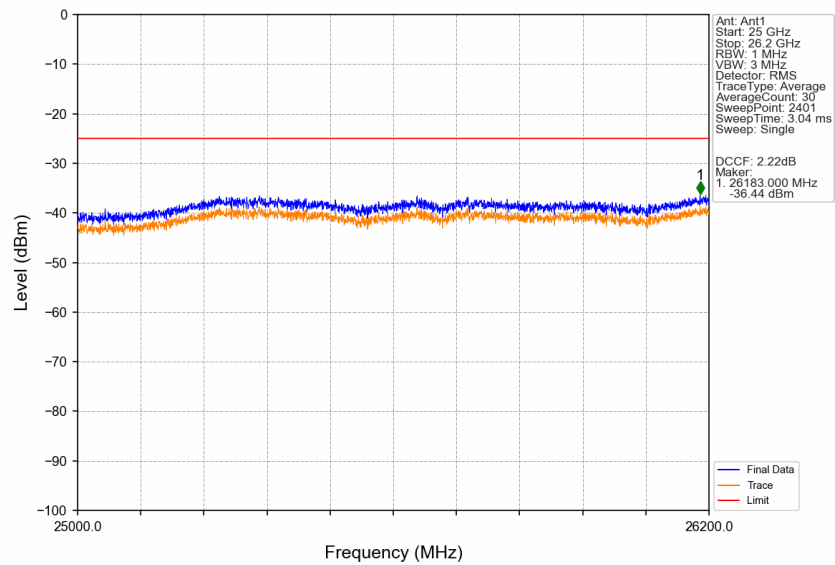
## 5.2.2 B38\_10MHz



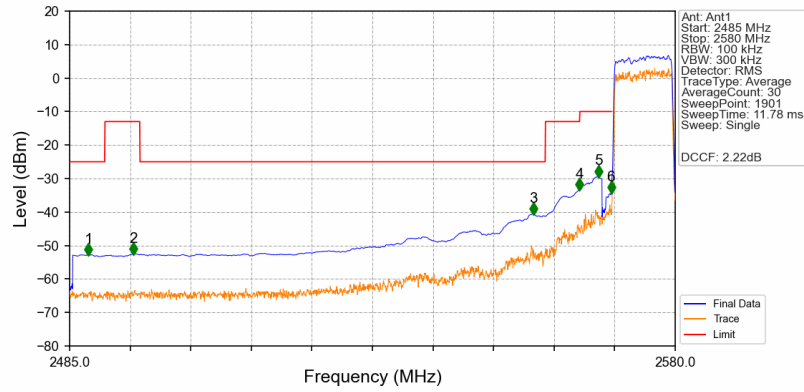
Band38\_10MHz\_QPSK\_LCH\_2575MHz\_RB\_1\_0\_NTNV



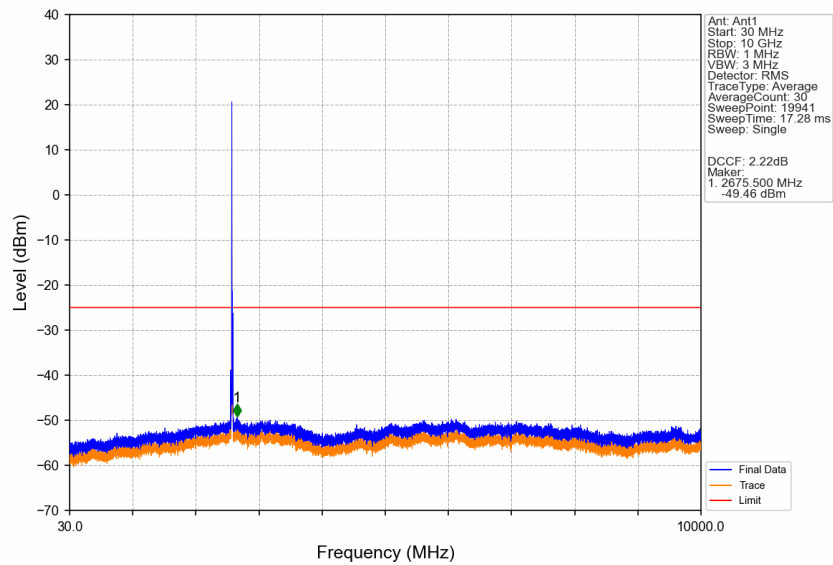
Band38\_10MHz\_QPSK\_LCH\_2575MHz\_RB\_1\_0\_NTNV



Band38\_10MHz\_QPSK\_LCH\_2575MHz\_RB\_50\_0\_NTNV

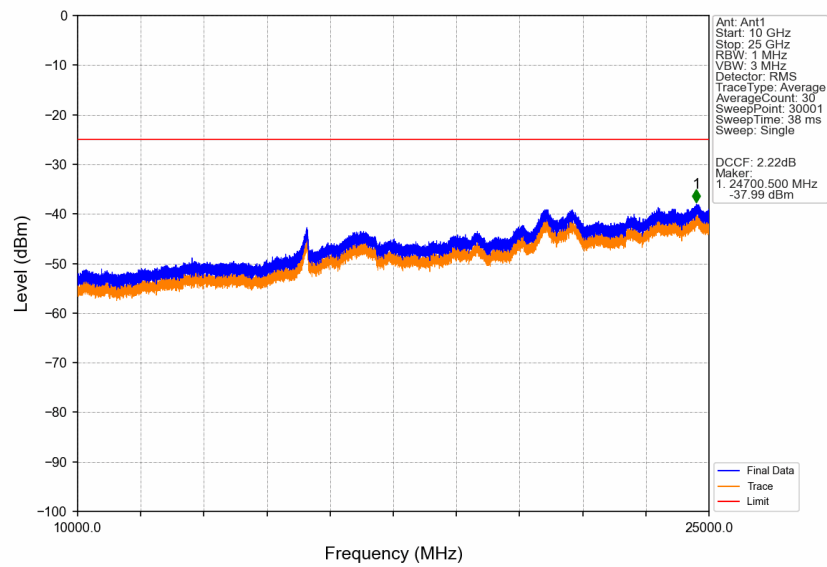


Band38 10MHz\_QPSK MCH 2595MHz RB 1 0 NTNv

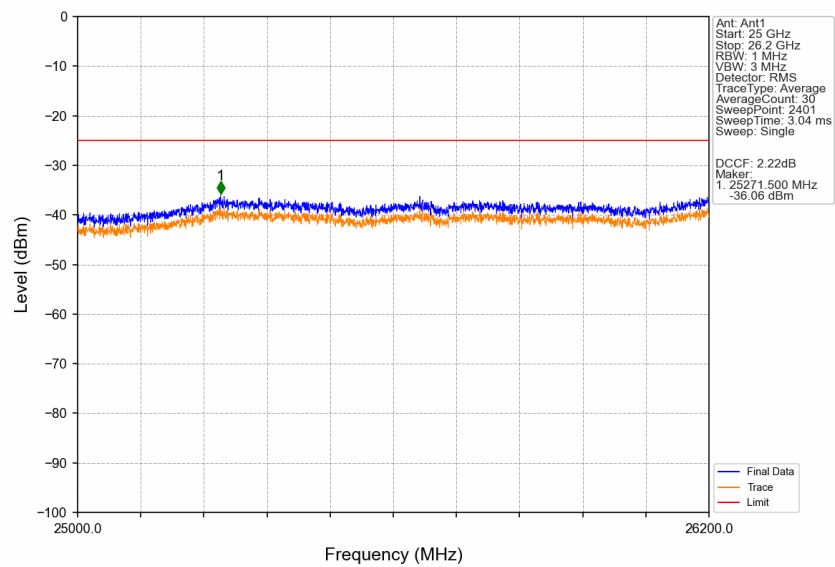




Band38\_10MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTNV

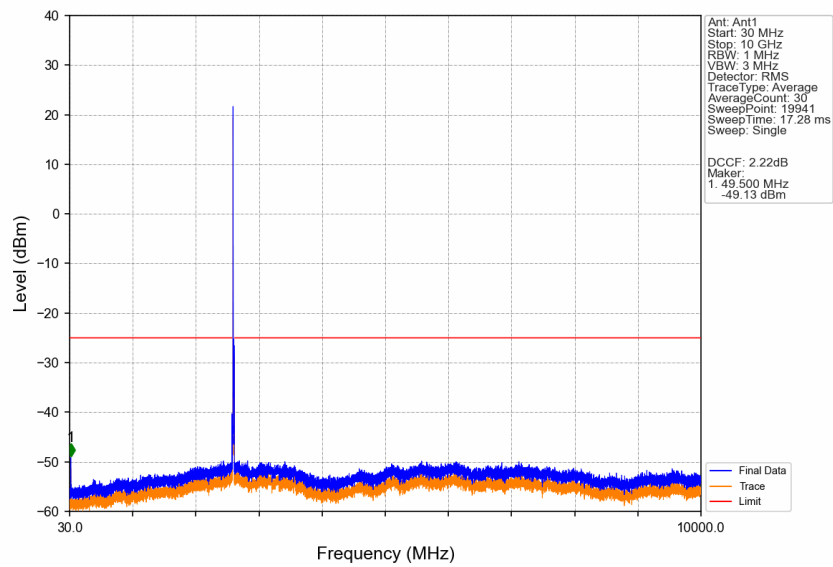


Band38 10MHz QPSK MCH 2595MHz RB 1 0 NTNv

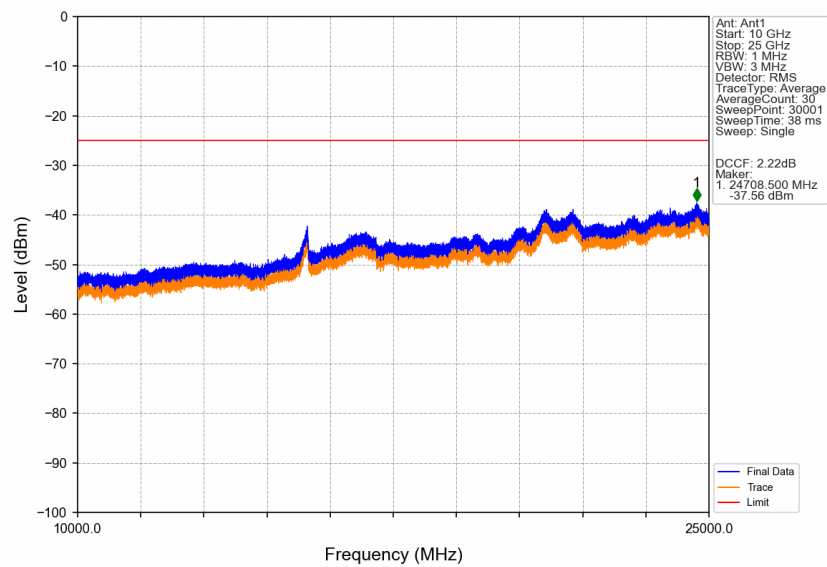




Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_1\_0\_NTNV

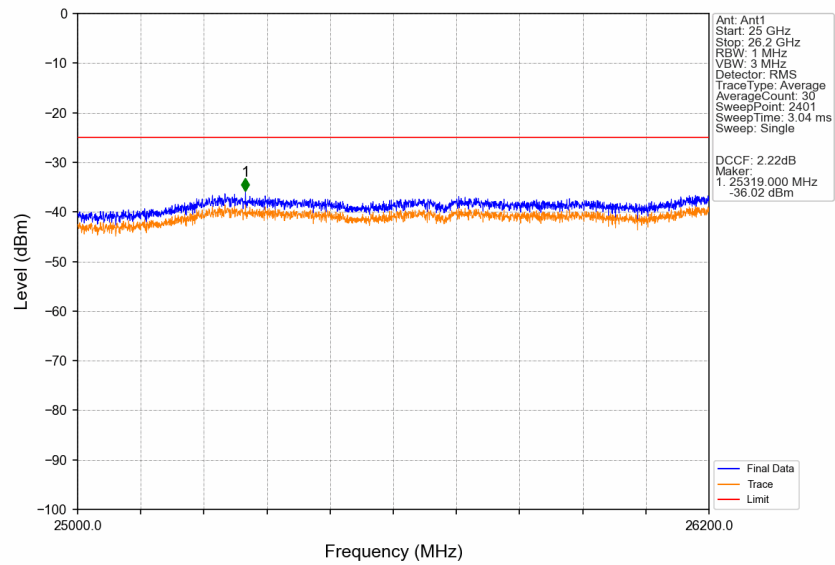


Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_1\_0\_NTNV

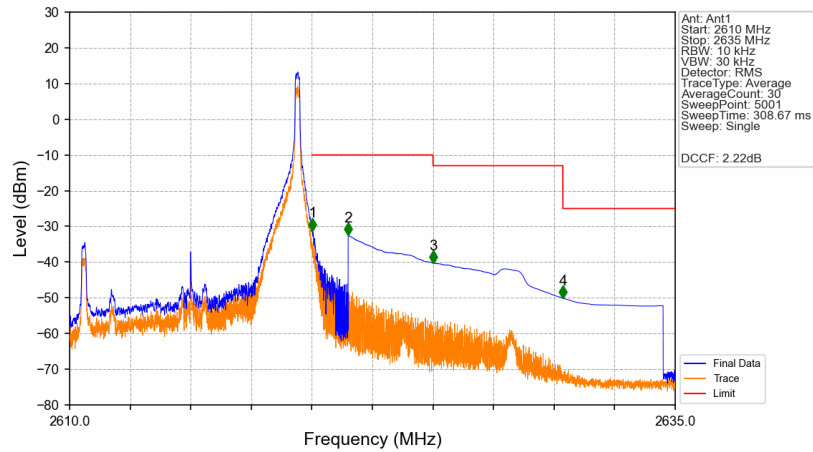




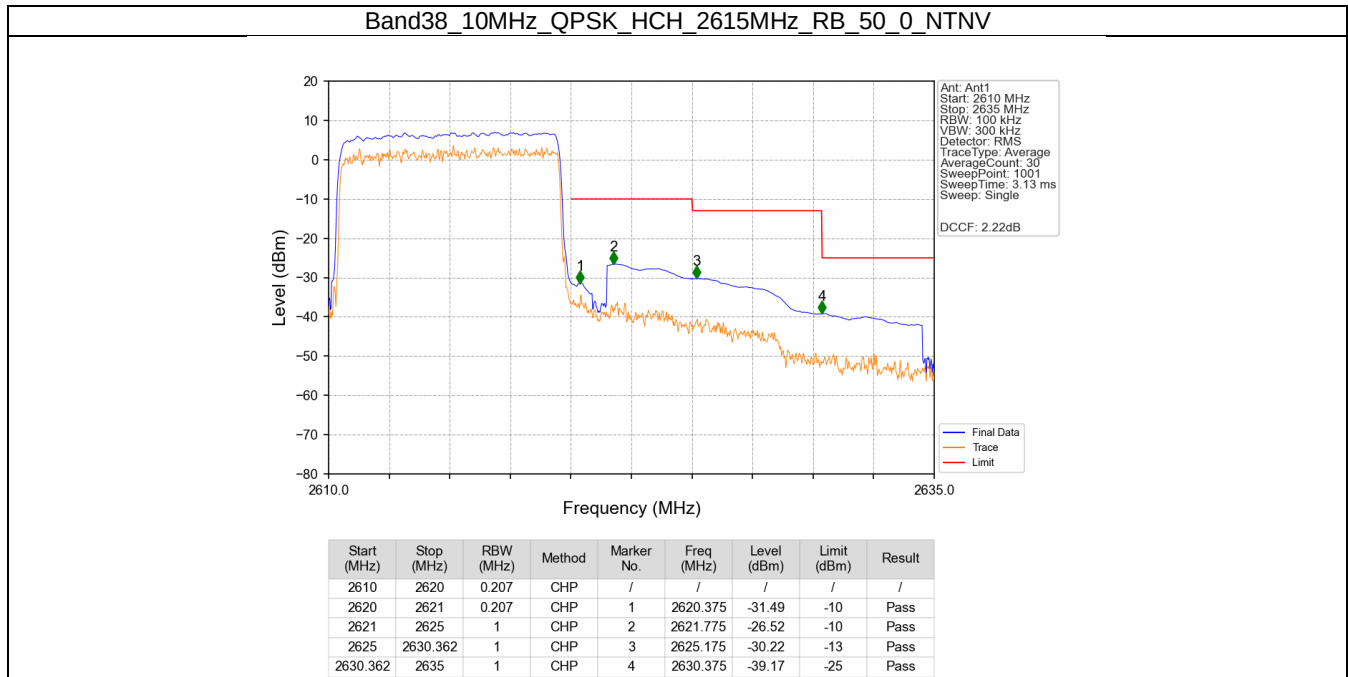
Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_1\_0\_NTNV



Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_1\_49\_NTNV

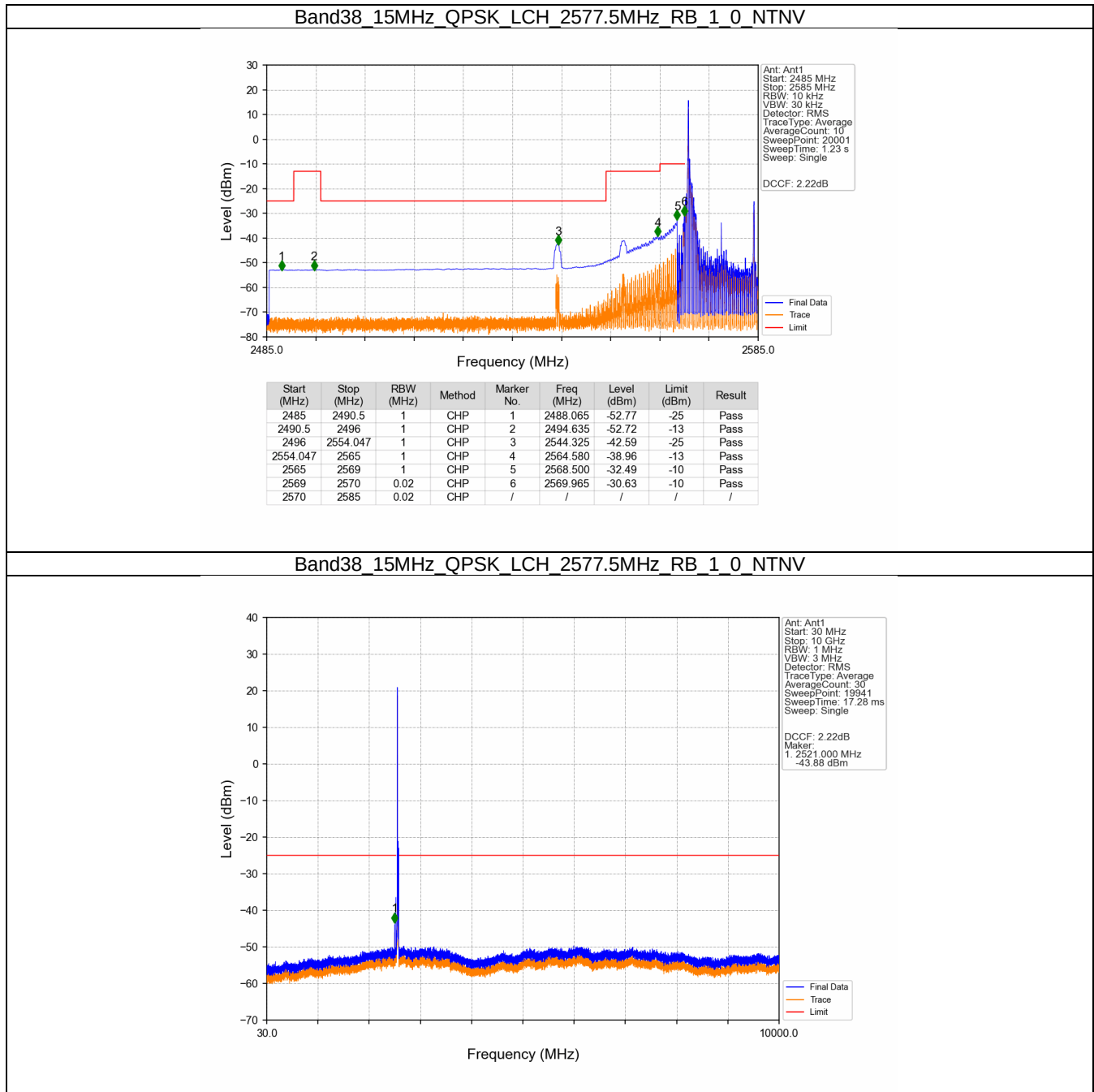


| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2610        | 2620       | 0.02      | CHP    | /          | /          | /           | /           | /      |
| 2620        | 2621       | 0.02      | CHP    | 1          | 2620.020   | -31.15      | -10         | Pass   |
| 2621        | 2625       | 1         | CHP    | 2          | 2621.500   | -32.49      | -10         | Pass   |
| 2625        | 2630.362   | 1         | CHP    | 3          | 2625.005   | -40.23      | -13         | Pass   |
| 2630.362    | 2635       | 1         | CHP    | 4          | 2630.365   | -50.12      | -25         | Pass   |





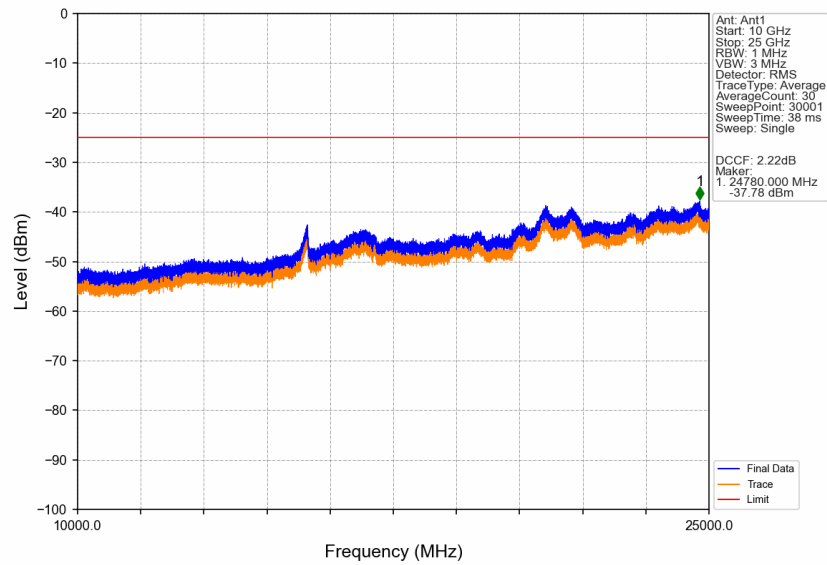
## 5.2.3 B38\_15MHz



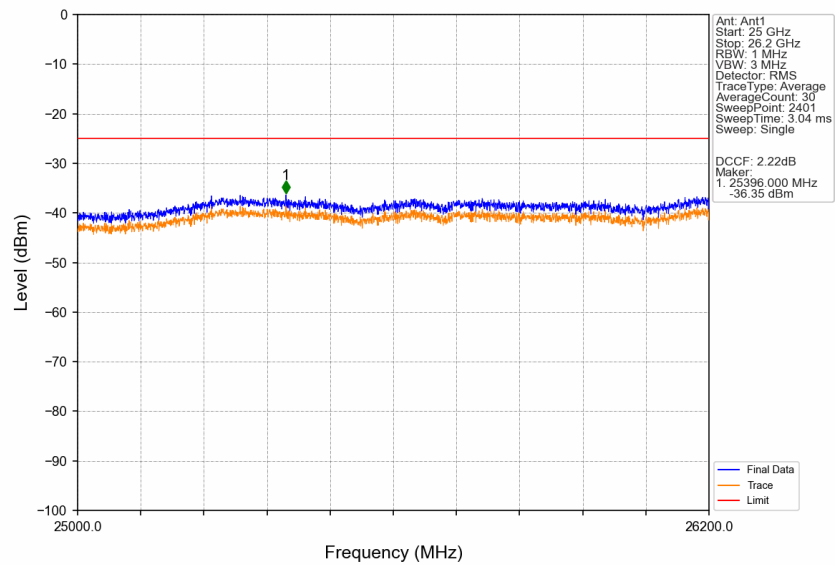




Band38\_15MHz\_QPSK\_LCH\_2577.5MHz\_RB\_1\_0\_NTNV

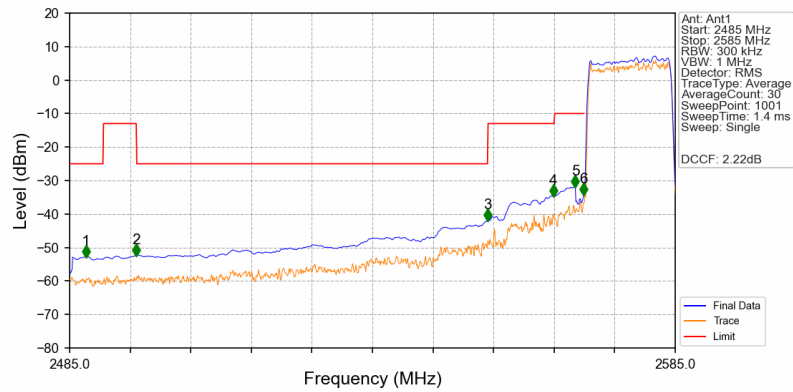


Band38\_15MHz\_QPSK\_LCH\_2577.5MHz\_RB\_1\_0\_NTNV



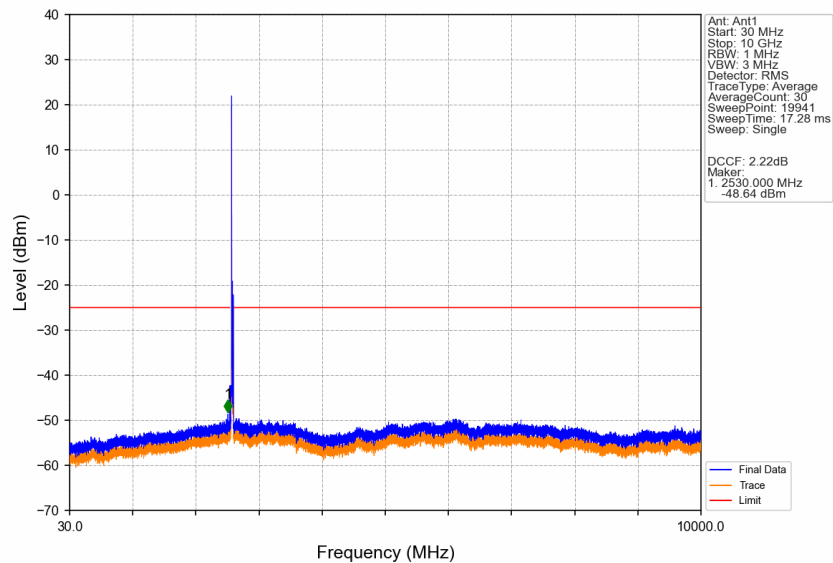


Band38\_15MHz\_QPSK\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV



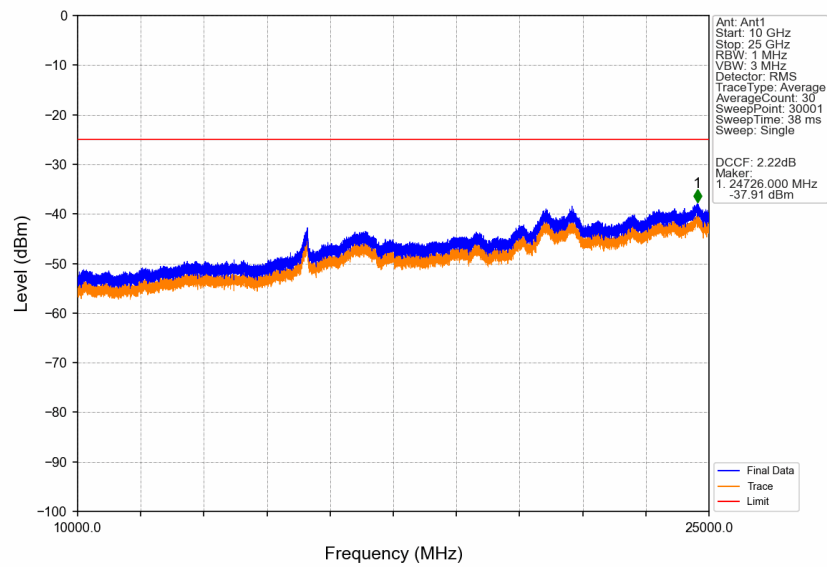
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2485        | 2490.5     | 1         | CHP    | 1          | 2487.700   | -52.77      | -25         | Pass   |
| 2490.5      | 2496       | 1         | CHP    | 2          | 2496.000   | -52.27      | -13         | Pass   |
| 2496        | 2554.047   | 1         | CHP    | 3          | 2554.000   | -41.92      | -25         | Pass   |
| 2554.047    | 2565       | 1         | CHP    | 4          | 2564.900   | -34.59      | -13         | Pass   |
| 2565        | 2569       | 1         | CHP    | 5          | 2568.500   | -31.86      | -10         | Pass   |
| 2569        | 2570       | 0.319     | CHP    | 6          | 2569.900   | -34.12      | -10         | Pass   |
| 2570        | 2585       | 0.319     | CHP    | /          | /          | /           | /           | /      |

Band38 15MHz\_QPSK MCH 2595MHz RB 1 0 NTNv

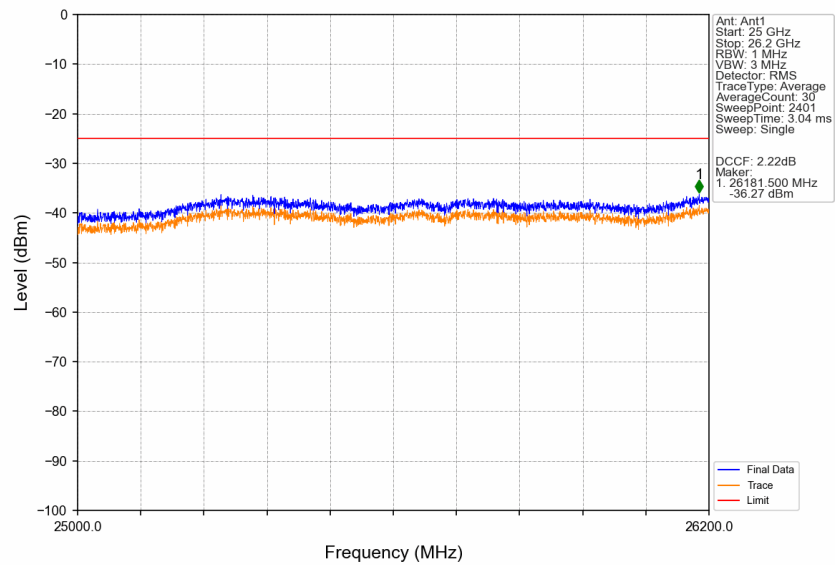




Band38\_15MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTNV

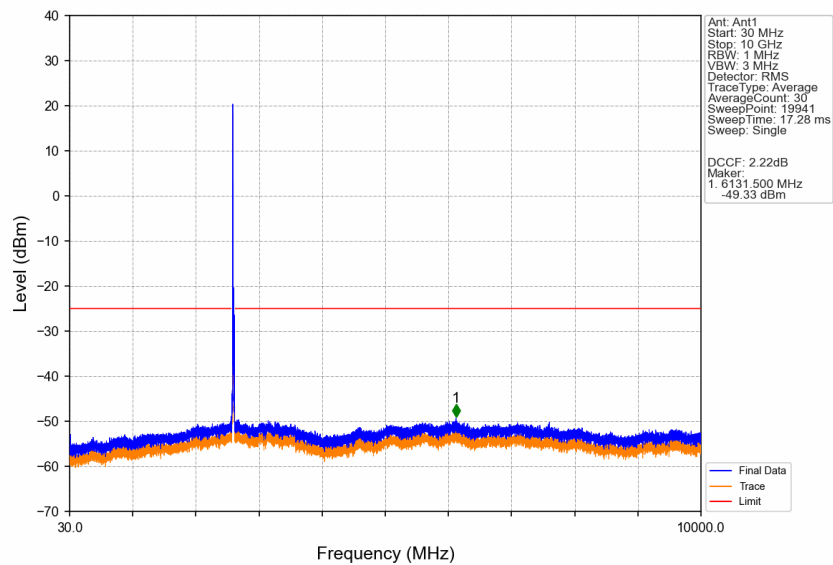


Band38 15MHz QPSK MCH 2595MHz RB 1 0 NTNv

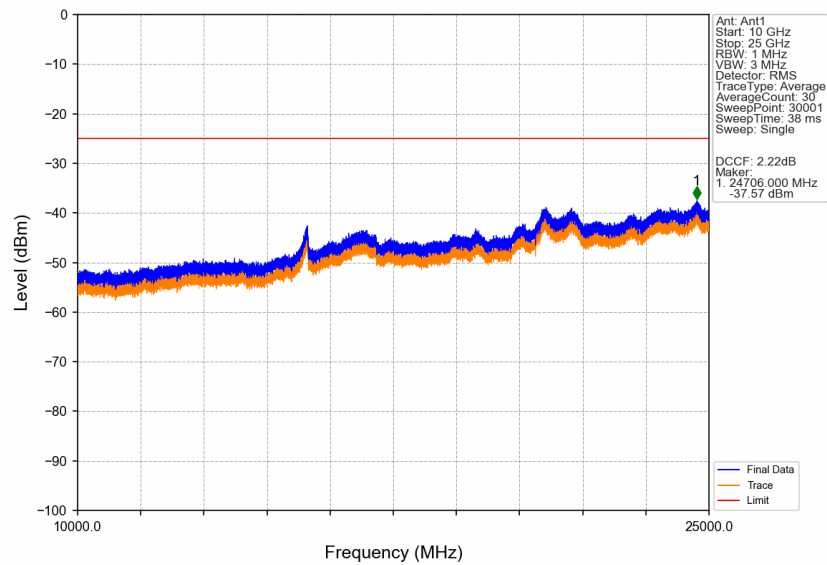




Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_1\_0\_NTNV

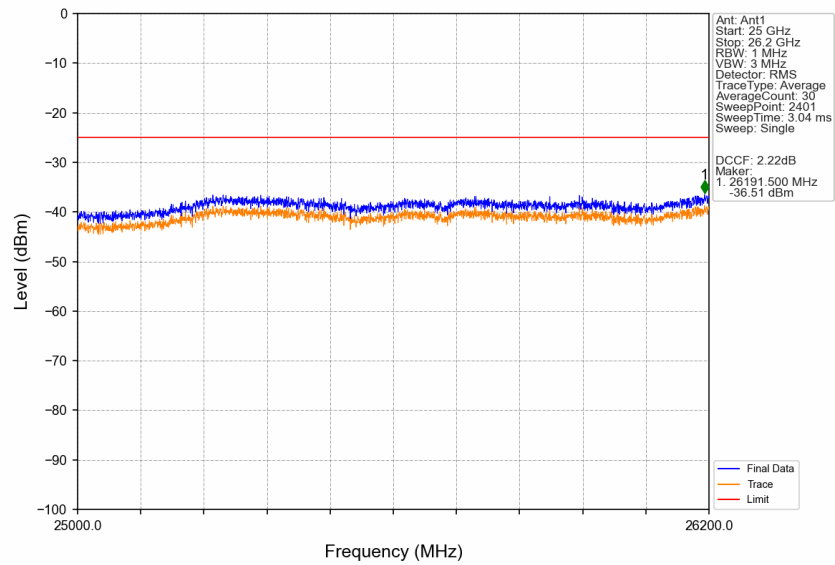


Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_1\_0\_NTNV

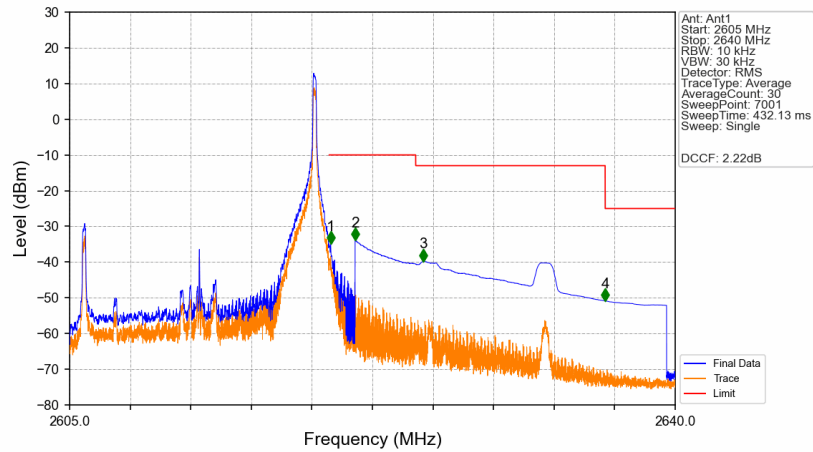




Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_1\_0\_NTNV

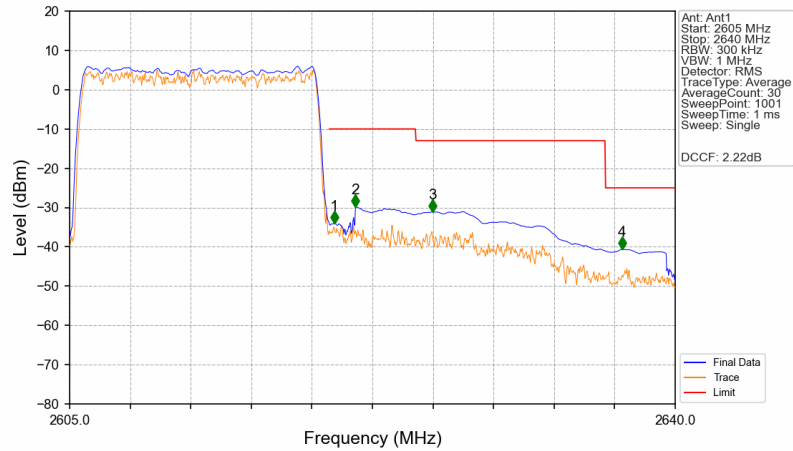


Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_1\_74\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2605        | 2620       | 0.02      | CHP    | /          | /          | /           | /           | /      |
| 2620        | 2621       | 0.02      | CHP    | 1          | 2620.085   | -34.91      | -10         | Pass   |
| 2621        | 2625       | 1         | CHP    | 2          | 2621.505   | -33.92      | -10         | Pass   |
| 2625        | 2635.953   | 1         | CHP    | 3          | 2625.440   | -39.77      | -13         | Pass   |
| 2635.953    | 2640       | 1         | CHP    | 4          | 2635.955   | -50.82      | -25         | Pass   |

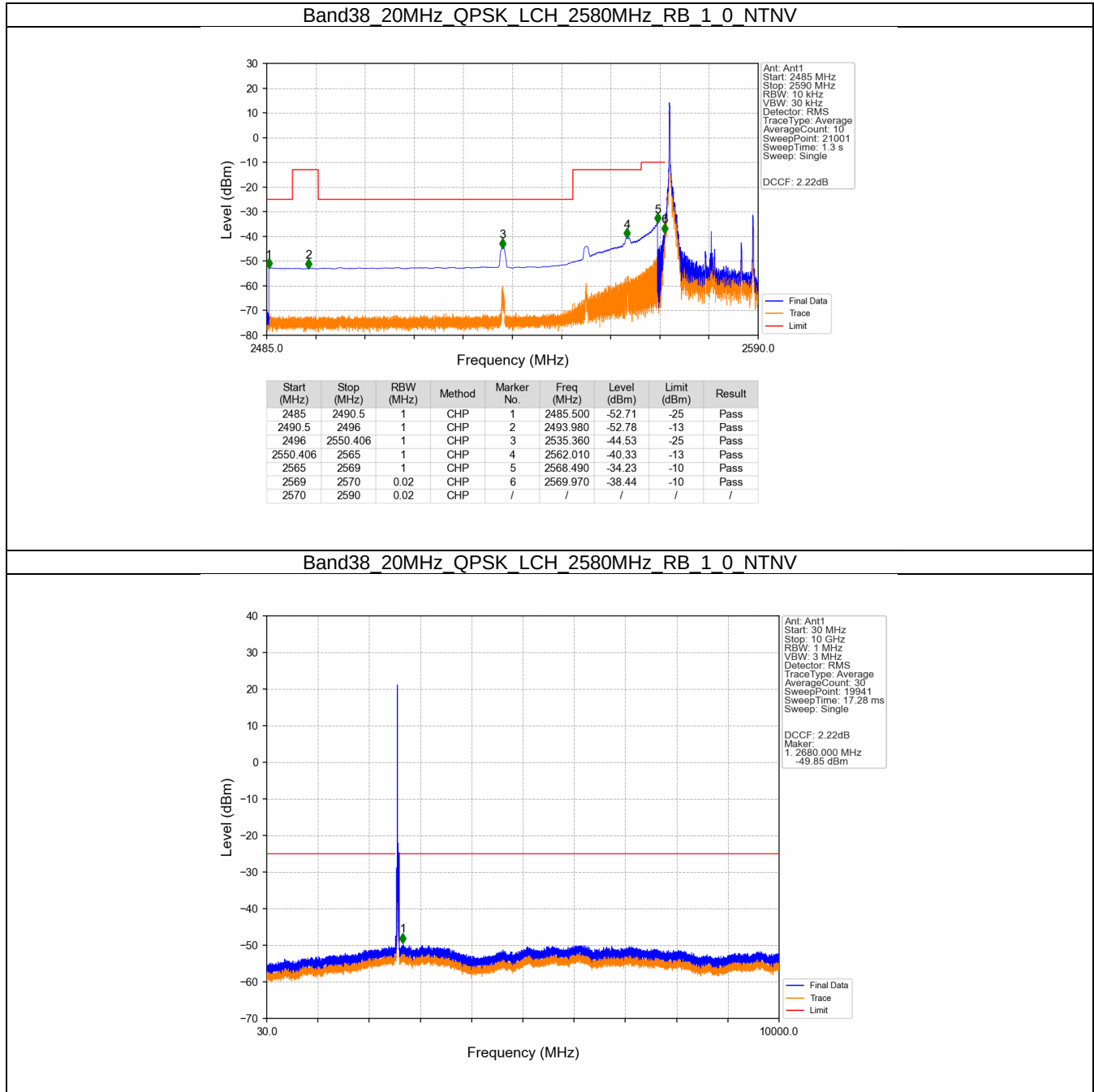
Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2605        | 2620       | 0.319     | CHP    | /          | /          | /           | /           | /      |
| 2620        | 2621       | 0.319     | CHP    | 1          | 2620.295   | -34.03      | -10         | Pass   |
| 2621        | 2625       | 1         | CHP    | 2          | 2621.520   | -29.91      | -10         | Pass   |
| 2625        | 2635.953   | 1         | CHP    | 3          | 2625.965   | -31.09      | -13         | Pass   |
| 2635.953    | 2640       | 1         | CHP    | 4          | 2636.920   | -40.68      | -25         | Pass   |

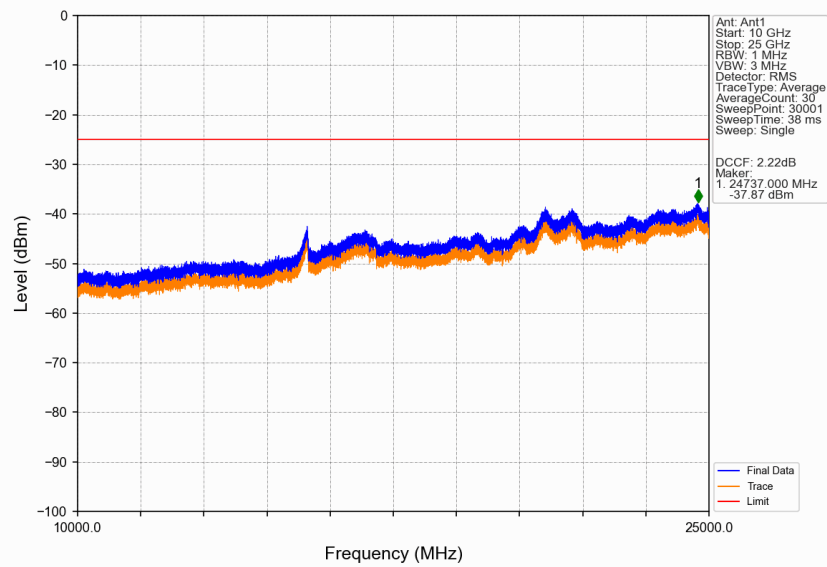


## 5.2.4 B38\_20MHz

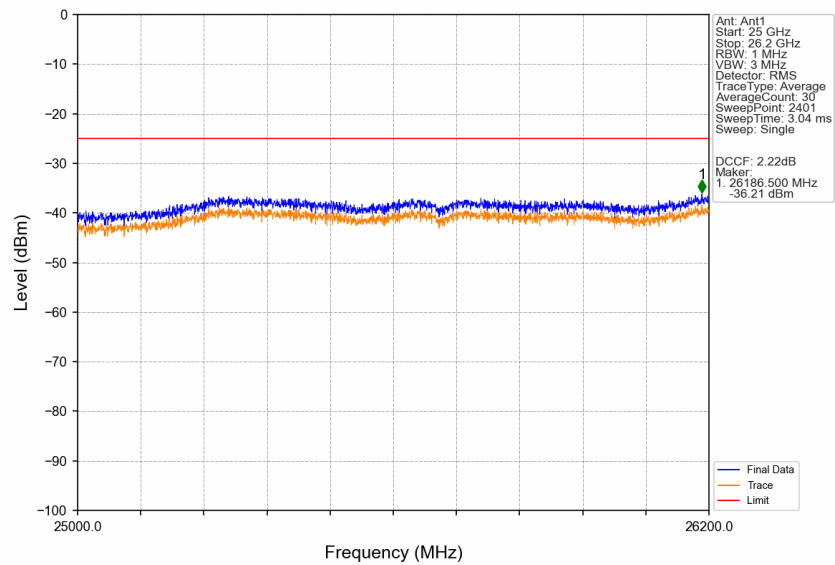




Band38\_20MHz\_QPSK\_LCH\_2580MHz\_RB\_1\_0\_NTNV

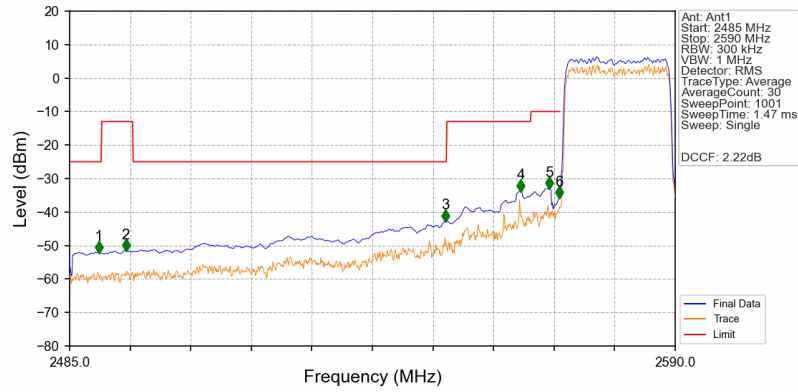


Band38 20MHz QPSK LCH 2580MHz RB 1 0 NTN



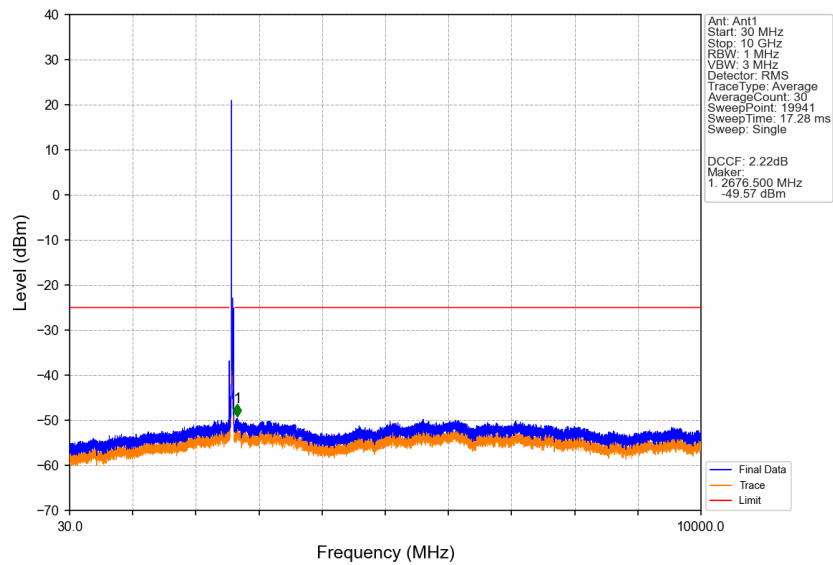


Band38\_20MHz\_QPSK\_LCH\_2580MHz\_RB\_100\_0\_NTNV



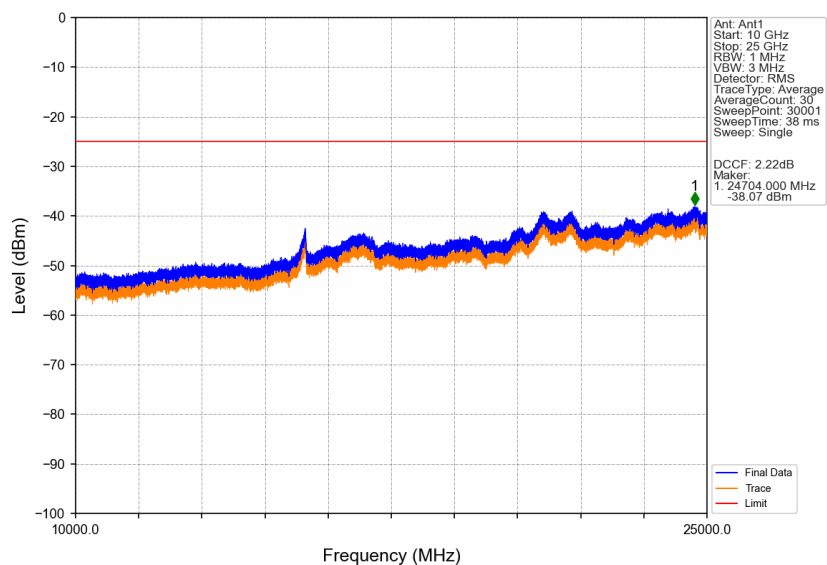
| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2485        | 2490.5     | 1         | CHP    | 1          | 2490.040   | -51.99      | -25         | Pass   |
| 2490.5      | 2496       | 1         | CHP    | 2          | 2494.765   | -51.45      | -13         | Pass   |
| 2496        | 2550.406   | 1         | CHP    | 3          | 2550.205   | -42.64      | -25         | Pass   |
| 2550.406    | 2565       | 1         | CHP    | 4          | 2563.225   | -33.63      | -13         | Pass   |
| 2565        | 2569       | 1         | CHP    | 5          | 2568.160   | -32.91      | -10         | Pass   |
| 2569        | 2570       | 0.392     | CHP    | 6          | 2569.945   | -35.72      | -10         | Pass   |
| 2570        | 2590       | 0.392     | CHP    | /          | /          | /           | /           | /      |

Band38 20MHz\_QPSK MCH 2595MHz RB 1 0 NTN

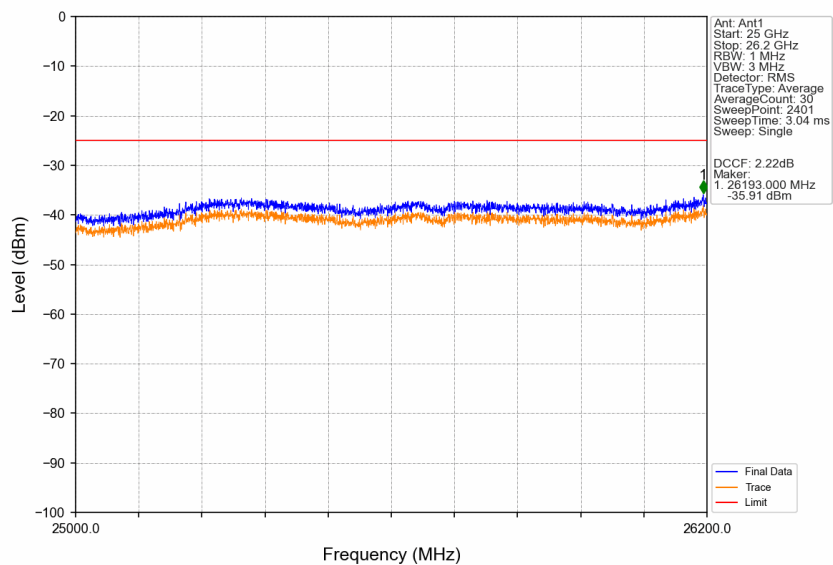




Band38\_20MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTNV

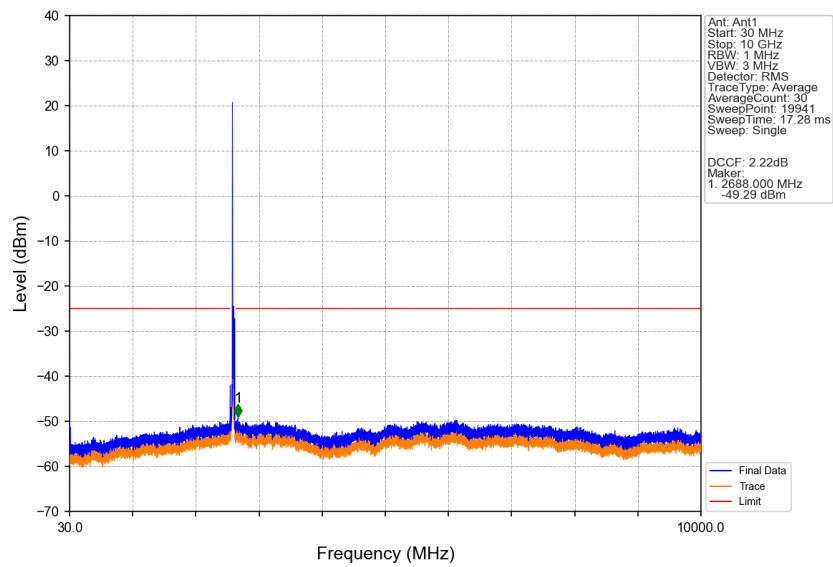


Band38 20MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTNV

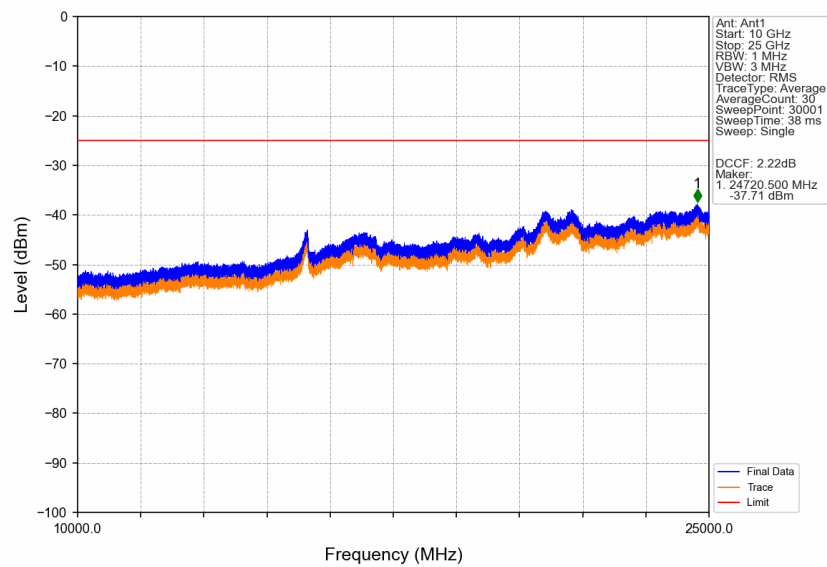




Band38\_20MHz\_QPSK\_HCH\_2610MHz\_RB\_1\_0\_NTNV

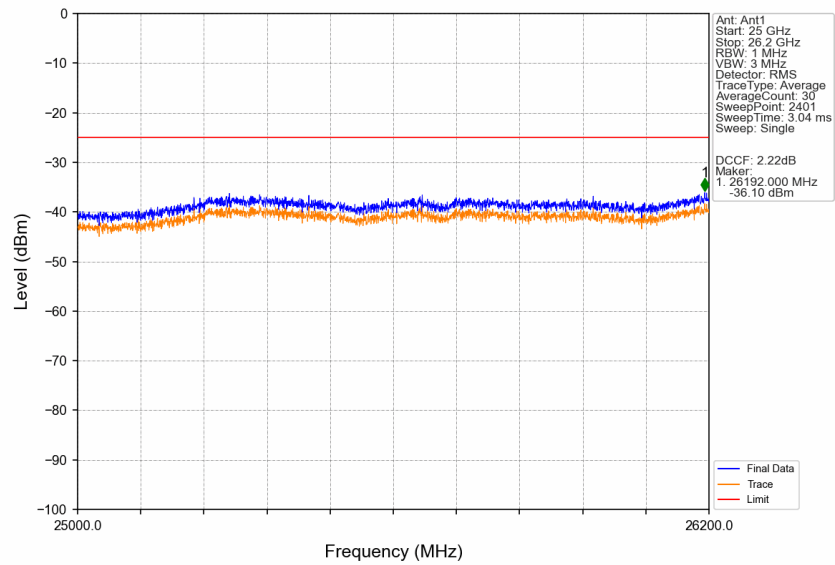


Band38\_20MHz\_QPSK\_HCH\_2610MHz\_RB\_1\_0\_NTNV

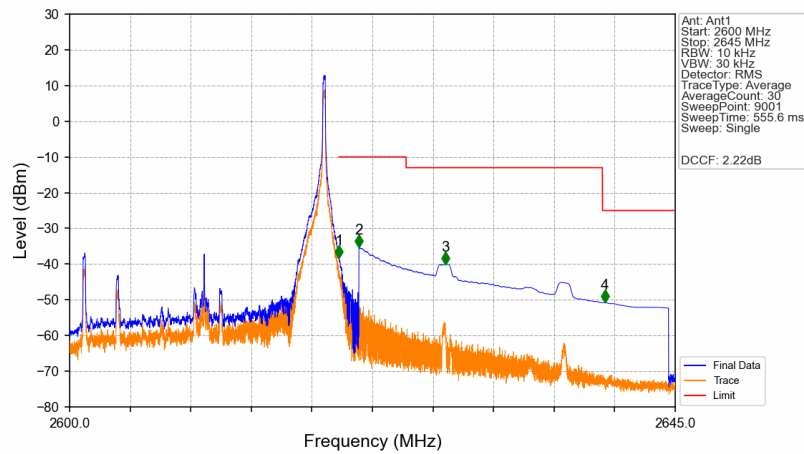




Band38\_20MHz\_QPSK\_HCH\_2610MHz\_RB\_1\_0\_NTNV



Band38\_20MHz\_QPSK\_HCH\_2610MHz\_RB\_1\_99\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 2600        | 2620       | 0.02      | CHP    | /          | /          | /           | /           | /      |
| 2620        | 2621       | 0.02      | CHP    | 1          | 2620.005   | -38.34      | -10         | Pass   |
| 2621        | 2625       | 1         | CHP    | 2          | 2621.500   | -35.35      | -10         | Pass   |
| 2625        | 2639.594   | 1         | CHP    | 3          | 2627.940   | -40.04      | -13         | Pass   |
| 2639.594    | 2645       | 1         | CHP    | 4          | 2639.770   | -50.78      | -25         | Pass   |

