

# 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      | 24.78                 | -1.10      | 23.68      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 24.68                 | -1.10      | 23.58      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 24.89                 | -1.10      | 23.79      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 23.96                 | -1.10      | 22.86      | <=33.01 | Pass    |
|                                   |                 |               | 6      | 23.94                 | -1.10      | 22.84      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 23.94                 | -1.10      | 22.84      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 23.92                 | -1.10      | 22.82      | <=33.01 | Pass    |
|                                   | 2595            | 1             | 0      | 24.76                 | -1.10      | 23.66      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 24.69                 | -1.10      | 23.59      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 24.74                 | -1.10      | 23.64      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 23.82                 | -1.10      | 22.72      | <=33.01 | Pass    |
|                                   |                 |               | 6      | 23.83                 | -1.10      | 22.73      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 23.82                 | -1.10      | 22.72      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 23.78                 | -1.10      | 22.68      | <=33.01 | Pass    |
|                                   | 2617.5          | 1             | 0      | 24.56                 | -1.10      | 23.46      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 24.69                 | -1.10      | 23.59      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 24.54                 | -1.10      | 23.44      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 23.38                 | -1.10      | 22.28      | <=33.01 | Pass    |
|                                   |                 |               | 6      | 23.48                 | -1.10      | 22.38      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 23.41                 | -1.10      | 22.31      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 23.57                 | -1.10      | 22.47      | <=33.01 | Pass    |
| 16QAM                             | 2572.5          | 1             | 0      | 23.76                 | -1.10      | 22.66      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 23.58                 | -1.10      | 22.48      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 23.38                 | -1.10      | 22.28      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 22.74                 | -1.10      | 21.64      | <=33.01 | Pass    |
|                                   |                 |               | 6      | 22.89                 | -1.10      | 21.79      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 22.96                 | -1.10      | 21.86      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 22.76                 | -1.10      | 21.66      | <=33.01 | Pass    |
|                                   | 2595            | 1             | 0      | 23.64                 | -1.10      | 22.54      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 23.49                 | -1.10      | 22.39      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 23.66                 | -1.10      | 22.56      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 22.44                 | -1.10      | 21.34      | <=33.01 | Pass    |
|                                   |                 |               | 6      | 22.83                 | -1.10      | 21.73      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 22.90                 | -1.10      | 21.80      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 22.55                 | -1.10      | 21.45      | <=33.01 | Pass    |
|                                   | 2617.5          | 1             | 0      | 23.75                 | -1.10      | 22.65      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 23.71                 | -1.10      | 22.61      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 23.51                 | -1.10      | 22.41      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 22.70                 | -1.10      | 21.60      | <=33.01 | Pass    |
|                                   |                 |               | 6      | 22.63                 | -1.10      | 21.53      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 22.39                 | -1.10      | 21.29      | <=33.01 | Pass    |
|                                   |                 | 25            | 0      | 22.54                 | -1.10      | 21.44      | <=33.01 | Pass    |
| 64QAM                             | 2572.5          | 1             | 0      | 23.48                 | -1.10      | 22.38      | <=33.01 | Pass    |
|                                   |                 |               | 13     | 23.61                 | -1.10      | 22.51      | <=33.01 | Pass    |
|                                   |                 |               | 24     | 23.72                 | -1.10      | 22.62      | <=33.01 | Pass    |
|                                   |                 | 12            | 0      | 22.87                 | -1.10      | 21.77      | <=33.01 | Pass    |

|  |      |        |    |       |       |       |         |         |      |
|--|------|--------|----|-------|-------|-------|---------|---------|------|
|  |      | 25     | 6  | 22.83 | -1.10 | 21.73 | <=33.01 | Pass    |      |
|  |      |        | 13 | 22.94 | -1.10 | 21.84 | <=33.01 | Pass    |      |
|  |      |        | 0  | 22.97 | -1.10 | 21.87 | <=33.01 | Pass    |      |
|  | 2595 | 1      | 0  | 23.56 | -1.10 | 22.46 | <=33.01 | Pass    |      |
|  |      |        | 13 | 23.32 | -1.10 | 22.22 | <=33.01 | Pass    |      |
|  |      |        | 24 | 23.44 | -1.10 | 22.34 | <=33.01 | Pass    |      |
|  |      | 12     | 0  | 22.83 | -1.10 | 21.73 | <=33.01 | Pass    |      |
|  |      |        | 6  | 22.82 | -1.10 | 21.72 | <=33.01 | Pass    |      |
|  |      |        | 13 | 22.51 | -1.10 | 21.41 | <=33.01 | Pass    |      |
|  |      | 25     | 0  | 22.74 | -1.10 | 21.64 | <=33.01 | Pass    |      |
|  |      | 2617.5 | 1  | 0     | 23.46 | -1.10 | 22.36   | <=33.01 | Pass |
|  |      |        |    | 13    | 23.44 | -1.10 | 22.34   | <=33.01 | Pass |
|  | 24   |        |    | 23.21 | -1.10 | 22.11 | <=33.01 | Pass    |      |
|  | 12   |        | 0  | 22.34 | -1.10 | 21.24 | <=33.01 | Pass    |      |
|  |      |        | 6  | 22.73 | -1.10 | 21.63 | <=33.01 | Pass    |      |
|  |      |        | 13 | 22.60 | -1.10 | 21.50 | <=33.01 | Pass    |      |
|  | 25   |        | 0  | 22.63 | -1.10 | 21.53 | <=33.01 | Pass    |      |

|        |        |    |    |       |       |       |         |      |
|--------|--------|----|----|-------|-------|-------|---------|------|
| 256QAM | 2572.5 | 1  | 0  | 19.88 | -1.10 | 18.78 | <=33.01 | Pass |
|        |        |    | 13 | 19.95 | -1.10 | 18.85 | <=33.01 | Pass |
|        |        |    | 24 | 19.69 | -1.10 | 18.59 | <=33.01 | Pass |
|        |        | 12 | 0  | 19.85 | -1.10 | 18.75 | <=33.01 | Pass |
|        |        |    | 6  | 19.68 | -1.10 | 18.58 | <=33.01 | Pass |
|        |        |    | 13 | 19.79 | -1.10 | 18.69 | <=33.01 | Pass |
|        |        | 25 | 0  | 19.88 | -1.10 | 18.78 | <=33.01 | Pass |
|        | 2595   | 1  | 0  | 19.58 | -1.10 | 18.48 | <=33.01 | Pass |
|        |        |    | 13 | 19.84 | -1.10 | 18.74 | <=33.01 | Pass |
|        |        |    | 24 | 19.58 | -1.10 | 18.48 | <=33.01 | Pass |
|        |        | 12 | 0  | 19.79 | -1.10 | 18.69 | <=33.01 | Pass |
|        |        |    | 6  | 19.88 | -1.10 | 18.78 | <=33.01 | Pass |
|        |        |    | 13 | 19.75 | -1.10 | 18.65 | <=33.01 | Pass |
|        |        | 25 | 0  | 19.83 | -1.10 | 18.73 | <=33.01 | Pass |
|        | 2617.5 | 1  | 0  | 19.52 | -1.10 | 18.42 | <=33.01 | Pass |
|        |        |    | 13 | 19.67 | -1.10 | 18.57 | <=33.01 | Pass |
|        |        |    | 24 | 19.80 | -1.10 | 18.70 | <=33.01 | Pass |
|        |        | 12 | 0  | 19.66 | -1.10 | 18.56 | <=33.01 | Pass |
|        |        |    | 6  | 19.71 | -1.10 | 18.61 | <=33.01 | Pass |
|        |        |    | 13 | 19.53 | -1.10 | 18.43 | <=33.01 | Pass |
|        |        | 25 | 0  | 19.65 | -1.10 | 18.55 | <=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      | 24.81                 | -1.10      | 23.71      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 24.85                 | -1.10      | 23.75      | <=33.01 | Pass    |
|                                    |                 |               | 49     | 24.65                 | -1.10      | 23.55      | <=33.01 | Pass    |
|                                    |                 | 25            | 0      | 23.96                 | -1.10      | 22.86      | <=33.01 | Pass    |
|                                    |                 |               | 13     | 23.97                 | -1.10      | 22.87      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 23.93                 | -1.10      | 22.83      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 23.96                 | -1.10      | 22.86      | <=33.01 | Pass    |
|                                    | 2595            | 1             | 0      | 24.84                 | -1.10      | 23.74      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 24.82                 | -1.10      | 23.72      | <=33.01 | Pass    |
|                                    |                 |               | 49     | 24.35                 | -1.10      | 23.25      | <=33.01 | Pass    |

|        |      |    |    |       |       |       |         |      |
|--------|------|----|----|-------|-------|-------|---------|------|
|        |      | 25 | 0  | 23.75 | -1.10 | 22.65 | <=33.01 | Pass |
|        |      |    | 13 | 23.81 | -1.10 | 22.71 | <=33.01 | Pass |
|        |      |    | 25 | 23.82 | -1.10 | 22.72 | <=33.01 | Pass |
|        |      | 50 | 0  | 23.84 | -1.10 | 22.74 | <=33.01 | Pass |
|        | 2615 | 1  | 0  | 24.73 | -1.10 | 23.63 | <=33.01 | Pass |
|        |      |    | 25 | 24.65 | -1.10 | 23.55 | <=33.01 | Pass |
|        |      |    | 49 | 24.56 | -1.10 | 23.46 | <=33.01 | Pass |
|        |      | 25 | 0  | 23.78 | -1.10 | 22.68 | <=33.01 | Pass |
|        |      |    | 13 | 23.76 | -1.10 | 22.66 | <=33.01 | Pass |
|        |      |    | 25 | 23.71 | -1.10 | 22.61 | <=33.01 | Pass |
|        |      | 50 | 0  | 23.73 | -1.10 | 22.63 | <=33.01 | Pass |
| 16QAM  | 2575 | 1  | 0  | 23.75 | -1.10 | 22.65 | <=33.01 | Pass |
|        |      |    | 25 | 23.70 | -1.10 | 22.60 | <=33.01 | Pass |
|        |      |    | 49 | 23.50 | -1.10 | 22.40 | <=33.01 | Pass |
|        |      | 25 | 0  | 22.98 | -1.10 | 21.88 | <=33.01 | Pass |
|        |      |    | 13 | 22.96 | -1.10 | 21.86 | <=33.01 | Pass |
|        |      |    | 25 | 22.91 | -1.10 | 21.81 | <=33.01 | Pass |
|        |      | 50 | 0  | 22.93 | -1.10 | 21.83 | <=33.01 | Pass |
|        | 2595 | 1  | 0  | 23.40 | -1.10 | 22.30 | <=33.01 | Pass |
|        |      |    | 25 | 23.85 | -1.10 | 22.75 | <=33.01 | Pass |
|        |      |    | 49 | 23.36 | -1.10 | 22.26 | <=33.01 | Pass |
|        |      | 25 | 0  | 22.77 | -1.10 | 21.67 | <=33.01 | Pass |
|        |      |    | 13 | 22.88 | -1.10 | 21.78 | <=33.01 | Pass |
|        |      |    | 25 | 22.81 | -1.10 | 21.71 | <=33.01 | Pass |
|        |      | 50 | 0  | 22.85 | -1.10 | 21.75 | <=33.01 | Pass |
|        | 2615 | 1  | 0  | 23.52 | -1.10 | 22.42 | <=33.01 | Pass |
|        |      |    | 25 | 23.65 | -1.10 | 22.55 | <=33.01 | Pass |
|        |      |    | 49 | 23.57 | -1.10 | 22.47 | <=33.01 | Pass |
|        |      | 25 | 0  | 22.70 | -1.10 | 21.60 | <=33.01 | Pass |
|        |      |    | 13 | 22.54 | -1.10 | 21.44 | <=33.01 | Pass |
|        |      |    | 25 | 22.64 | -1.10 | 21.54 | <=33.01 | Pass |
|        |      | 50 | 0  | 22.75 | -1.10 | 21.65 | <=33.01 | Pass |
| 64QAM  | 2575 | 1  | 0  | 23.78 | -1.10 | 22.68 | <=33.01 | Pass |
|        |      |    | 25 | 23.71 | -1.10 | 22.61 | <=33.01 | Pass |
|        |      |    | 49 | 23.79 | -1.10 | 22.69 | <=33.01 | Pass |
|        |      | 25 | 0  | 22.96 | -1.10 | 21.86 | <=33.01 | Pass |
|        |      |    | 13 | 22.93 | -1.10 | 21.83 | <=33.01 | Pass |
|        |      |    | 25 | 22.91 | -1.10 | 21.81 | <=33.01 | Pass |
|        |      | 50 | 0  | 22.90 | -1.10 | 21.80 | <=33.01 | Pass |
|        | 2595 | 1  | 0  | 23.38 | -1.10 | 22.28 | <=33.01 | Pass |
|        |      |    | 25 | 23.63 | -1.10 | 22.53 | <=33.01 | Pass |
|        |      |    | 49 | 23.25 | -1.10 | 22.15 | <=33.01 | Pass |
|        |      | 25 | 0  | 22.39 | -1.10 | 21.29 | <=33.01 | Pass |
|        |      |    | 13 | 22.76 | -1.10 | 21.66 | <=33.01 | Pass |
|        |      |    | 25 | 22.52 | -1.10 | 21.42 | <=33.01 | Pass |
|        |      | 50 | 0  | 22.80 | -1.10 | 21.70 | <=33.01 | Pass |
|        | 2615 | 1  | 0  | 23.68 | -1.10 | 22.58 | <=33.01 | Pass |
|        |      |    | 25 | 23.64 | -1.10 | 22.54 | <=33.01 | Pass |
|        |      |    | 49 | 23.39 | -1.10 | 22.29 | <=33.01 | Pass |
|        |      | 25 | 0  | 22.41 | -1.10 | 21.31 | <=33.01 | Pass |
|        |      |    | 13 | 22.54 | -1.10 | 21.44 | <=33.01 | Pass |
|        |      |    | 25 | 22.55 | -1.10 | 21.45 | <=33.01 | Pass |
|        |      | 50 | 0  | 22.67 | -1.10 | 21.57 | <=33.01 | Pass |
| 256QAM | 2575 | 1  | 0  | 19.52 | -1.10 | 18.42 | <=33.01 | Pass |
|        |      |    | 25 | 19.65 | -1.10 | 18.55 | <=33.01 | Pass |
|        |      |    | 49 | 19.85 | -1.10 | 18.75 | <=33.01 | Pass |
|        |      | 25 | 0  | 19.95 | -1.10 | 18.85 | <=33.01 | Pass |

|  |      |    |    |       |       |       |         |      |
|--|------|----|----|-------|-------|-------|---------|------|
|  |      | 50 | 13 | 19.96 | -1.10 | 18.86 | <=33.01 | Pass |
|  |      |    | 25 | 19.95 | -1.10 | 18.85 | <=33.01 | Pass |
|  |      |    | 0  | 19.86 | -1.10 | 18.76 | <=33.01 | Pass |
|  | 2595 | 1  | 0  | 19.43 | -1.10 | 18.33 | <=33.01 | Pass |
|  |      |    | 25 | 19.87 | -1.10 | 18.77 | <=33.01 | Pass |
|  |      |    | 49 | 19.56 | -1.10 | 18.46 | <=33.01 | Pass |
|  |      | 25 | 0  | 19.68 | -1.10 | 18.58 | <=33.01 | Pass |
|  |      |    | 13 | 19.68 | -1.10 | 18.58 | <=33.01 | Pass |
|  |      |    | 25 | 19.60 | -1.10 | 18.50 | <=33.01 | Pass |
|  |      | 50 | 0  | 19.71 | -1.10 | 18.61 | <=33.01 | Pass |
|  | 2615 | 1  | 0  | 19.47 | -1.10 | 18.37 | <=33.01 | Pass |
|  |      |    | 25 | 19.67 | -1.10 | 18.57 | <=33.01 | Pass |
|  |      |    | 49 | 19.45 | -1.10 | 18.35 | <=33.01 | Pass |
|  |      | 25 | 0  | 19.78 | -1.10 | 18.68 | <=33.01 | Pass |
|  |      |    | 13 | 19.68 | -1.10 | 18.58 | <=33.01 | Pass |
|  |      |    | 25 | 19.58 | -1.10 | 18.48 | <=33.01 | Pass |
|  |      | 50 | 0  | 19.64 | -1.10 | 18.54 | <=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      | 24.56                 | -1.10      | 23.46      | <=33.01 | Pass    |
|                                    |                 |               | 38     | 24.45                 | -1.10      | 23.35      | <=33.01 | Pass    |
|                                    |                 |               | 74     | 24.60                 | -1.10      | 23.50      | <=33.01 | Pass    |
|                                    |                 | 36            | 0      | 23.82                 | -1.10      | 22.72      | <=33.01 | Pass    |
|                                    |                 |               | 18     | 23.78                 | -1.10      | 22.68      | <=33.01 | Pass    |
|                                    |                 |               | 39     | 23.73                 | -1.10      | 22.63      | <=33.01 | Pass    |
|                                    |                 | 75            | 0      | 23.79                 | -1.10      | 22.69      | <=33.01 | Pass    |
|                                    | 2595            | 1             | 0      | 24.52                 | -1.10      | 23.42      | <=33.01 | Pass    |
|                                    |                 |               | 38     | 24.53                 | -1.10      | 23.43      | <=33.01 | Pass    |
|                                    |                 |               | 74     | 24.45                 | -1.10      | 23.35      | <=33.01 | Pass    |
|                                    |                 | 36            | 0      | 23.66                 | -1.10      | 22.56      | <=33.01 | Pass    |
|                                    |                 |               | 18     | 23.19                 | -1.10      | 22.09      | <=33.01 | Pass    |
|                                    |                 |               | 39     | 23.15                 | -1.10      | 22.05      | <=33.01 | Pass    |
|                                    |                 | 75            | 0      | 23.48                 | -1.10      | 22.38      | <=33.01 | Pass    |
|                                    | 2612.5          | 1             | 0      | 24.47                 | -1.10      | 23.37      | <=33.01 | Pass    |
|                                    |                 |               | 38     | 24.46                 | -1.10      | 23.36      | <=33.01 | Pass    |
|                                    |                 |               | 74     | 24.36                 | -1.10      | 23.26      | <=33.01 | Pass    |
|                                    |                 | 36            | 0      | 23.57                 | -1.10      | 22.47      | <=33.01 | Pass    |
|                                    |                 |               | 18     | 23.46                 | -1.10      | 22.36      | <=33.01 | Pass    |
|                                    |                 |               | 39     | 23.59                 | -1.10      | 22.49      | <=33.01 | Pass    |
|                                    |                 | 75            | 0      | 23.55                 | -1.10      | 22.45      | <=33.01 | Pass    |
| 16QAM                              | 2577.5          | 1             | 0      | 23.38                 | -1.10      | 22.28      | <=33.01 | Pass    |
|                                    |                 |               | 38     | 23.41                 | -1.10      | 22.31      | <=33.01 | Pass    |
|                                    |                 |               | 74     | 23.33                 | -1.10      | 22.23      | <=33.01 | Pass    |
|                                    |                 | 36            | 0      | 22.84                 | -1.10      | 21.74      | <=33.01 | Pass    |
|                                    |                 |               | 18     | 22.76                 | -1.10      | 21.66      | <=33.01 | Pass    |
|                                    |                 |               | 39     | 22.72                 | -1.10      | 21.62      | <=33.01 | Pass    |
|                                    |                 | 75            | 0      | 22.80                 | -1.10      | 21.70      | <=33.01 | Pass    |
|                                    | 2595            | 1             | 0      | 23.25                 | -1.10      | 22.15      | <=33.01 | Pass    |
|                                    |                 |               | 38     | 23.39                 | -1.10      | 22.29      | <=33.01 | Pass    |
|                                    |                 |               | 74     | 23.09                 | -1.10      | 21.99      | <=33.01 | Pass    |

|                                          |        |    |    |       |       |       |         |      |
|------------------------------------------|--------|----|----|-------|-------|-------|---------|------|
|                                          |        | 36 | 0  | 22.43 | -1.10 | 21.33 | <=33.01 | Pass |
|                                          |        |    | 18 | 22.63 | -1.10 | 21.53 | <=33.01 | Pass |
|                                          |        |    | 39 | 22.60 | -1.10 | 21.50 | <=33.01 | Pass |
|                                          |        | 75 | 0  | 22.52 | -1.10 | 21.42 | <=33.01 | Pass |
|                                          | 2612.5 | 1  | 0  | 23.30 | -1.10 | 22.20 | <=33.01 | Pass |
|                                          |        |    | 38 | 23.48 | -1.10 | 22.38 | <=33.01 | Pass |
|                                          |        |    | 74 | 23.29 | -1.10 | 22.19 | <=33.01 | Pass |
|                                          |        | 36 | 0  | 22.57 | -1.10 | 21.47 | <=33.01 | Pass |
|                                          |        |    | 18 | 22.35 | -1.10 | 21.25 | <=33.01 | Pass |
|                                          |        |    | 39 | 22.53 | -1.10 | 21.43 | <=33.01 | Pass |
|                                          |        | 75 | 0  | 22.53 | -1.10 | 21.43 | <=33.01 | Pass |
| 64QAM                                    | 2577.5 | 1  | 0  | 23.22 | -1.10 | 22.12 | <=33.01 | Pass |
|                                          |        |    | 38 | 23.50 | -1.10 | 22.40 | <=33.01 | Pass |
|                                          |        |    | 74 | 23.44 | -1.10 | 22.34 | <=33.01 | Pass |
|                                          |        | 36 | 0  | 22.85 | -1.10 | 21.75 | <=33.01 | Pass |
|                                          |        |    | 18 | 22.70 | -1.10 | 21.60 | <=33.01 | Pass |
|                                          |        |    | 39 | 22.60 | -1.10 | 21.50 | <=33.01 | Pass |
|                                          |        | 75 | 0  | 22.62 | -1.10 | 21.52 | <=33.01 | Pass |
|                                          | 2595   | 1  | 0  | 22.98 | -1.10 | 21.88 | <=33.01 | Pass |
|                                          |        |    | 38 | 23.15 | -1.10 | 22.05 | <=33.01 | Pass |
|                                          |        |    | 74 | 23.31 | -1.10 | 22.21 | <=33.01 | Pass |
|                                          |        | 36 | 0  | 22.53 | -1.10 | 21.43 | <=33.01 | Pass |
|                                          |        |    | 18 | 22.56 | -1.10 | 21.46 | <=33.01 | Pass |
|                                          |        |    | 39 | 22.47 | -1.10 | 21.37 | <=33.01 | Pass |
|                                          |        | 75 | 0  | 22.60 | -1.10 | 21.50 | <=33.01 | Pass |
|                                          | 2612.5 | 1  | 0  | 23.19 | -1.10 | 22.09 | <=33.01 | Pass |
|                                          |        |    | 38 | 23.17 | -1.10 | 22.07 | <=33.01 | Pass |
|                                          |        |    | 74 | 23.24 | -1.10 | 22.14 | <=33.01 | Pass |
|                                          |        | 36 | 0  | 22.57 | -1.10 | 21.47 | <=33.01 | Pass |
|                                          |        |    | 18 | 22.44 | -1.10 | 21.34 | <=33.01 | Pass |
|                                          |        |    | 39 | 22.50 | -1.10 | 21.40 | <=33.01 | Pass |
|                                          |        | 75 | 0  | 22.53 | -1.10 | 21.43 | <=33.01 | Pass |
| 256QAM                                   | 2577.5 | 1  | 0  | 19.52 | -1.10 | 18.42 | <=33.01 | Pass |
|                                          |        |    | 38 | 19.56 | -1.10 | 18.46 | <=33.01 | Pass |
|                                          |        |    | 74 | 19.50 | -1.10 | 18.40 | <=33.01 | Pass |
|                                          |        | 36 | 0  | 19.77 | -1.10 | 18.67 | <=33.01 | Pass |
|                                          |        |    | 18 | 19.63 | -1.10 | 18.53 | <=33.01 | Pass |
|                                          |        |    | 39 | 19.55 | -1.10 | 18.45 | <=33.01 | Pass |
|                                          |        | 75 | 0  | 19.49 | -1.10 | 18.39 | <=33.01 | Pass |
|                                          | 2595   | 1  | 0  | 19.63 | -1.10 | 18.53 | <=33.01 | Pass |
|                                          |        |    | 38 | 19.59 | -1.10 | 18.49 | <=33.01 | Pass |
|                                          |        |    | 74 | 19.66 | -1.10 | 18.56 | <=33.01 | Pass |
|                                          |        | 36 | 0  | 19.63 | -1.10 | 18.53 | <=33.01 | Pass |
|                                          |        |    | 18 | 19.51 | -1.10 | 18.41 | <=33.01 | Pass |
|                                          |        |    | 39 | 19.48 | -1.10 | 18.38 | <=33.01 | Pass |
|                                          |        | 75 | 0  | 19.61 | -1.10 | 18.51 | <=33.01 | Pass |
|                                          | 2612.5 | 1  | 0  | 19.20 | -1.10 | 18.10 | <=33.01 | Pass |
|                                          |        |    | 38 | 19.43 | -1.10 | 18.33 | <=33.01 | Pass |
|                                          |        |    | 74 | 19.38 | -1.10 | 18.28 | <=33.01 | Pass |
|                                          |        | 36 | 0  | 19.52 | -1.10 | 18.42 | <=33.01 | Pass |
|                                          |        |    | 18 | 19.43 | -1.10 | 18.33 | <=33.01 | Pass |
|                                          |        |    | 39 | 19.54 | -1.10 | 18.44 | <=33.01 | Pass |
|                                          |        | 75 | 0  | 19.53 | -1.10 | 18.43 | <=33.01 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain |        |    |    |       |       |       |         |      |

#### 1.1.4 B38\_20MHz\_EIRP

| Band: 38 / Bandwidth: 20MHz / NTNV |                 |               |        |                       |            |            |         |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |         | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result     | Limit   |         |
| QPSK                               | 2580            | 1             | 0      | 24.74                 | -1.10      | 23.64      | <=33.01 | Pass    |
|                                    |                 |               | 50     | 24.60                 | -1.10      | 23.50      | <=33.01 | Pass    |
|                                    |                 |               | 99     | 24.35                 | -1.10      | 23.25      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 23.84                 | -1.10      | 22.74      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 23.77                 | -1.10      | 22.67      | <=33.01 | Pass    |
|                                    |                 |               | 50     | 23.73                 | -1.10      | 22.63      | <=33.01 | Pass    |
|                                    |                 | 100           | 0      | 23.79                 | -1.10      | 22.69      | <=33.01 | Pass    |
|                                    | 2595            | 1             | 0      | 24.57                 | -1.10      | 23.47      | <=33.01 | Pass    |
|                                    |                 |               | 50     | 24.46                 | -1.10      | 23.36      | <=33.01 | Pass    |
|                                    |                 |               | 99     | 24.39                 | -1.10      | 23.29      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 23.64                 | -1.10      | 22.54      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 23.63                 | -1.10      | 22.53      | <=33.01 | Pass    |
|                                    |                 |               | 50     | 23.64                 | -1.10      | 22.54      | <=33.01 | Pass    |
|                                    |                 | 100           | 0      | 23.71                 | -1.10      | 22.61      | <=33.01 | Pass    |
|                                    | 2610            | 1             | 0      | 24.58                 | -1.10      | 23.48      | <=33.01 | Pass    |
|                                    |                 |               | 50     | 24.54                 | -1.10      | 23.44      | <=33.01 | Pass    |
|                                    |                 |               | 99     | 24.22                 | -1.10      | 23.12      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 23.62                 | -1.10      | 22.52      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 23.50                 | -1.10      | 22.40      | <=33.01 | Pass    |
|                                    |                 |               | 50     | 23.62                 | -1.10      | 22.52      | <=33.01 | Pass    |
|                                    |                 | 100           | 0      | 23.57                 | -1.10      | 22.47      | <=33.01 | Pass    |
| 16QAM                              | 2580            | 1             | 0      | 23.64                 | -1.10      | 22.54      | <=33.01 | Pass    |
|                                    |                 |               | 50     | 23.48                 | -1.10      | 22.38      | <=33.01 | Pass    |
|                                    |                 |               | 99     | 23.28                 | -1.10      | 22.18      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 22.62                 | -1.10      | 21.52      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 22.57                 | -1.10      | 21.47      | <=33.01 | Pass    |
|                                    |                 |               | 50     | 22.45                 | -1.10      | 21.35      | <=33.01 | Pass    |
|                                    |                 | 100           | 0      | 22.75                 | -1.10      | 21.65      | <=33.01 | Pass    |
|                                    | 2595            | 1             | 0      | 23.48                 | -1.10      | 22.38      | <=33.01 | Pass    |
|                                    |                 |               | 50     | 23.55                 | -1.10      | 22.45      | <=33.01 | Pass    |
|                                    |                 |               | 99     | 23.32                 | -1.10      | 22.22      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 22.62                 | -1.10      | 21.52      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 22.47                 | -1.10      | 21.37      | <=33.01 | Pass    |
|                                    |                 |               | 50     | 22.63                 | -1.10      | 21.53      | <=33.01 | Pass    |
|                                    |                 | 100           | 0      | 22.63                 | -1.10      | 21.53      | <=33.01 | Pass    |
|                                    | 2610            | 1             | 0      | 23.30                 | -1.10      | 22.20      | <=33.01 | Pass    |
|                                    |                 |               | 50     | 23.37                 | -1.10      | 22.27      | <=33.01 | Pass    |
|                                    |                 |               | 99     | 23.30                 | -1.10      | 22.20      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 22.50                 | -1.10      | 21.40      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 22.48                 | -1.10      | 21.38      | <=33.01 | Pass    |
|                                    |                 |               | 50     | 22.63                 | -1.10      | 21.53      | <=33.01 | Pass    |
|                                    |                 | 100           | 0      | 22.47                 | -1.10      | 21.37      | <=33.01 | Pass    |
| 64QAM                              | 2580            | 1             | 0      | 23.55                 | -1.10      | 22.45      | <=33.01 | Pass    |
|                                    |                 |               | 50     | 23.14                 | -1.10      | 22.04      | <=33.01 | Pass    |
|                                    |                 |               | 99     | 23.17                 | -1.10      | 22.07      | <=33.01 | Pass    |
|                                    |                 | 50            | 0      | 22.82                 | -1.10      | 21.72      | <=33.01 | Pass    |
|                                    |                 |               | 25     | 22.80                 | -1.10      | 21.70      | <=33.01 | Pass    |
|                                    |                 |               | 50     | 22.42                 | -1.10      | 21.32      | <=33.01 | Pass    |
|                                    |                 | 100           | 0      | 22.76                 | -1.10      | 21.66      | <=33.01 | Pass    |
|                                    | 2595            | 1             | 0      | 23.40                 | -1.10      | 22.30      | <=33.01 | Pass    |
|                                    |                 |               | 50     | 23.51                 | -1.10      | 22.41      | <=33.01 | Pass    |

|                                          |      |        |       |       |         |         |         |         |         |      |
|------------------------------------------|------|--------|-------|-------|---------|---------|---------|---------|---------|------|
|                                          |      | 50     | 99    | 23.31 | -1.10   | 22.21   | <=33.01 | Pass    |         |      |
|                                          |      |        | 0     | 22.48 | -1.10   | 21.38   | <=33.01 | Pass    |         |      |
|                                          |      |        | 25    | 22.59 | -1.10   | 21.49   | <=33.01 | Pass    |         |      |
|                                          |      |        | 50    | 22.67 | -1.10   | 21.57   | <=33.01 | Pass    |         |      |
|                                          |      | 100    | 0     | 22.61 | -1.10   | 21.51   | <=33.01 | Pass    |         |      |
|                                          | 2610 | 1      | 0     | 23.18 | -1.10   | 22.08   | <=33.01 | Pass    |         |      |
|                                          |      |        | 50    | 23.24 | -1.10   | 22.14   | <=33.01 | Pass    |         |      |
|                                          |      |        | 99    | 22.97 | -1.10   | 21.87   | <=33.01 | Pass    |         |      |
|                                          |      | 50     | 0     | 22.62 | -1.10   | 21.52   | <=33.01 | Pass    |         |      |
|                                          |      |        | 25    | 22.40 | -1.10   | 21.30   | <=33.01 | Pass    |         |      |
|                                          |      |        | 50    | 22.54 | -1.10   | 21.44   | <=33.01 | Pass    |         |      |
|                                          |      | 100    | 0     | 22.59 | -1.10   | 21.49   | <=33.01 | Pass    |         |      |
|                                          |      | 256QAM | 2580  | 1     | 0       | 19.46   | -1.10   | 18.36   | <=33.01 | Pass |
|                                          |      |        |       |       | 50      | 19.48   | -1.10   | 18.38   | <=33.01 | Pass |
|                                          | 99   |        |       |       | 19.46   | -1.10   | 18.36   | <=33.01 | Pass    |      |
|                                          | 50   |        |       | 0     | 19.74   | -1.10   | 18.64   | <=33.01 | Pass    |      |
| 25                                       |      |        |       | 19.48 | -1.10   | 18.38   | <=33.01 | Pass    |         |      |
| 50                                       |      |        |       | 19.74 | -1.10   | 18.64   | <=33.01 | Pass    |         |      |
| 100                                      | 0    |        | 19.75 | -1.10 | 18.65   | <=33.01 | Pass    |         |         |      |
| 2595                                     | 1    |        | 0     | 19.69 | -1.10   | 18.59   | <=33.01 | Pass    |         |      |
|                                          |      |        | 50    | 19.36 | -1.10   | 18.26   | <=33.01 | Pass    |         |      |
|                                          |      |        | 99    | 19.61 | -1.10   | 18.51   | <=33.01 | Pass    |         |      |
|                                          | 50   | 0      | 19.65 | -1.10 | 18.55   | <=33.01 | Pass    |         |         |      |
|                                          |      | 25     | 19.47 | -1.10 | 18.37   | <=33.01 | Pass    |         |         |      |
|                                          |      | 50     | 19.58 | -1.10 | 18.48   | <=33.01 | Pass    |         |         |      |
| 100                                      | 0    | 19.51  | -1.10 | 18.41 | <=33.01 | Pass    |         |         |         |      |
| 2610                                     | 1    | 0      | 19.53 | -1.10 | 18.43   | <=33.01 | Pass    |         |         |      |
|                                          |      | 50     | 19.24 | -1.10 | 18.14   | <=33.01 | Pass    |         |         |      |
|                                          |      | 99     | 19.34 | -1.10 | 18.24   | <=33.01 | Pass    |         |         |      |
|                                          | 50   | 0      | 19.62 | -1.10 | 18.52   | <=33.01 | Pass    |         |         |      |
|                                          |      | 25     | 19.57 | -1.10 | 18.47   | <=33.01 | Pass    |         |         |      |
|                                          |      | 50     | 19.60 | -1.10 | 18.50   | <=33.01 | Pass    |         |         |      |
| 100                                      | 0    | 19.50  | -1.10 | 18.40 | <=33.01 | Pass    |         |         |         |      |
| Note1: EIRP=Conducted Power+Antenna Gain |      |        |       |       |         |         |         |         |         |      |

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B38\_5MHz

| Band: 38 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 2572.5          | 25            | 0      | 20         | 3.65          | 0.700            | 0.0003                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.87          | 1.600            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.45          | 0.100            | 0.0000                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.87          | -4.400           | -0.0017               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.87          | 3.300            | 0.0013                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.87          | 0.700            | 0.0003                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.87          | -1.700           | -0.0007               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.87          | -2.700           | -0.0010               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.87          | 0.200            | 0.0001                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.87          | -1.800           | -0.0007               | -2.5 to 2.5 | Pass    |

|       |        |    |   |     |      |        |         |             |      |
|-------|--------|----|---|-----|------|--------|---------|-------------|------|
|       | 2595   | 25 | 0 | 50  | 3.87 | 3.000  | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |    |   | 20  | 3.65 | 0.900  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | -1.600 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | -0.400 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | 0.300  | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | 1.100  | 0.0004  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | -0.400 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.87 | -2.500 | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.87 | 5.000  | 0.0019  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.87 | 3.300  | 0.0013  | -2.5 to 2.5 | Pass |
|       | 2617.5 | 25 | 0 | 40  | 3.87 | 1.300  | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.87 | 1.500  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |    |   | 20  | 3.65 | -1.500 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | 0.500  | 0.0002  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | 1.300  | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | 1.400  | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | -1.800 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.87 | -0.900 | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.87 | -1.800 | -0.0007 | -2.5 to 2.5 | Pass |
| 16QAM | 2572.5 | 25 | 0 | 30  | 3.87 | 0.500  | 0.0002  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.87 | -0.600 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.87 | 1.900  | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |    |   | 20  | 3.65 | -2.300 | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | -2.300 | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | -0.800 | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | -3.300 | -0.0013 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | 1.700  | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.87 | 1.900  | 0.0007  | -2.5 to 2.5 | Pass |
|       | 2595   | 25 | 0 | 10  | 3.87 | 1.800  | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.87 | -2.400 | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.87 | -1.700 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.87 | 0.900  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   | 20  | 3.65 | -2.200 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | 5.300  | 0.0020  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | -2.200 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | -0.300 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | -0.600 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | 0.100  | 0.0000  | -2.5 to 2.5 | Pass |
|       | 2617.5 | 25 | 0 | 0   | 3.87 | 1.800  | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.87 | -6.700 | -0.0026 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.87 | -0.300 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.87 | -4.200 | -0.0016 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.87 | -1.800 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | 20  | 3.65 | 3.800  | 0.0015  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | 1.800  | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | 0.400  | 0.0002  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | -0.700 | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | 0.900  | 0.0003  | -2.5 to 2.5 | Pass |
| 64QAM | 2572.5 | 25 | 0 | -10 | 3.87 | -0.600 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.87 | -1.300 | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.87 | 1.700  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.87 | -2.700 | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.87 | -1.800 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.87 | -0.600 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   | 20  | 3.65 | 36.200 | 0.0141  | -2.5 to 2.5 | Pass |

|        |        |    |   |     |      |         |         |             |      |
|--------|--------|----|---|-----|------|---------|---------|-------------|------|
|        |        |    |   |     | 3.87 | -6.700  | -0.0026 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | -70.200 | -0.0273 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | 25.600  | 0.0100  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | 29.900  | 0.0116  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | -61.000 | -0.0237 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | -50.300 | -0.0196 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | 18.500  | 0.0072  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | 38.000  | 0.0148  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | 16.900  | 0.0066  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 3.87 | 18.200  | 0.0071  | -2.5 to 2.5 | Pass |
|        | 2595   | 25 | 0 | 20  | 3.65 | -58.200 | -0.0224 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | 0.100   | 0.0000  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | 4.900   | 0.0019  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | -45.500 | -0.0175 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | -2.400  | -0.0009 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | 13.400  | 0.0052  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | 31.500  | 0.0121  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | 19.300  | 0.0074  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | -33.200 | -0.0128 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | -68.100 | -0.0262 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 3.87 | -34.300 | -0.0132 | -2.5 to 2.5 | Pass |
|        | 2617.5 | 25 | 0 | 20  | 3.65 | 38.500  | 0.0147  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | -30.400 | -0.0116 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | -33.300 | -0.0127 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | -52.600 | -0.0201 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | -32.300 | -0.0123 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | 45.100  | 0.0172  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | 67.000  | 0.0256  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | -43.900 | -0.0168 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | 24.100  | 0.0092  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | -9.700  | -0.0037 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 3.87 | -62.400 | -0.0238 | -2.5 to 2.5 | Pass |
| 256QAM | 2572.5 | 25 | 0 | 20  | 3.65 | 1.300   | 0.0005  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | 2.100   | 0.0008  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | 0.100   | 0.0000  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | 1.100   | 0.0004  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | -3.600  | -0.0014 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | -2.300  | -0.0009 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | -2.500  | -0.0010 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | -0.500  | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | 0.200   | 0.0001  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | 4.500   | 0.0017  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 3.87 | 0.500   | 0.0002  | -2.5 to 2.5 | Pass |
|        | 2595   | 25 | 0 | 20  | 3.65 | -0.200  | -0.0001 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | -2.200  | -0.0008 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | 0.300   | 0.0001  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | -0.700  | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | 2.400   | 0.0009  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | -5.200  | -0.0020 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | 5.900   | 0.0023  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | -6.900  | -0.0027 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | -1.000  | -0.0004 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | 5.200   | 0.0020  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 3.87 | -2.000  | -0.0008 | -2.5 to 2.5 | Pass |
|        | 2617.5 | 25 | 0 | 20  | 3.65 | -5.600  | -0.0021 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | -2.100  | -0.0008 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | 0.700   | 0.0003  | -2.5 to 2.5 | Pass |

|  |  |  |  |     |      |        |         |             |      |
|--|--|--|--|-----|------|--------|---------|-------------|------|
|  |  |  |  | -30 | 3.87 | -1.500 | -0.0006 | -2.5 to 2.5 | Pass |
|  |  |  |  | -20 | 3.87 | 3.000  | 0.0011  | -2.5 to 2.5 | Pass |
|  |  |  |  | -10 | 3.87 | 1.900  | 0.0007  | -2.5 to 2.5 | Pass |
|  |  |  |  | 0   | 3.87 | 4.500  | 0.0017  | -2.5 to 2.5 | Pass |
|  |  |  |  | 10  | 3.87 | 0.600  | 0.0002  | -2.5 to 2.5 | Pass |
|  |  |  |  | 30  | 3.87 | -2.400 | -0.0009 | -2.5 to 2.5 | Pass |
|  |  |  |  | 40  | 3.87 | -1.200 | -0.0005 | -2.5 to 2.5 | Pass |
|  |  |  |  | 50  | 3.87 | 1.300  | 0.0005  | -2.5 to 2.5 | Pass |

## 2.1.2 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                        | 2575            | 50            | 0      | 20         | 3.65          | -0.300           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.87          | -2.800           | -0.0011               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.45          | -0.800           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.87          | -2.000           | -0.0008               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.87          | -4.300           | -0.0017               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.87          | -3.400           | -0.0013               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.87          | -5.900           | -0.0023               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.87          | -4.000           | -0.0016               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.87          | -0.600           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.87          | 2.400            | 0.0009                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.87          | -3.400           | -0.0013               | -2.5 to 2.5 | Pass    |
|                             | 2595            | 50            | 0      | 20         | 3.65          | -0.500           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.87          | -2.000           | -0.0008               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.45          | 1.700            | 0.0007                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.87          | -1.200           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.87          | 0.600            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.87          | 1.700            | 0.0007                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.87          | -1.500           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.87          | -1.400           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.87          | -2.500           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.87          | -0.900           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.87          | -0.400           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             | 2615            | 50            | 0      | 20         | 3.65          | -0.900           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.87          | -0.100           | 0.0000                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.45          | -0.300           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.87          | -1.300           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.87          | 1.600            | 0.0006                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.87          | -3.300           | -0.0013               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.87          | 1.600            | 0.0006                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.87          | -1.500           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.87          | -2.900           | -0.0011               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.87          | 0.600            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.87          | -0.500           | -0.0002               | -2.5 to 2.5 | Pass    |
| 16QAM                       | 2575            | 50            | 0      | 20         | 3.65          | -5.200           | -0.0020               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.87          | -4.100           | -0.0016               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.45          | -5.100           | -0.0020               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.87          | -2.600           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.87          | -3.700           | -0.0014               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.87          | -4.100           | -0.0016               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.87          | -4.000           | -0.0016               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.87          | -1.800           | -0.0007               | -2.5 to 2.5 | Pass    |

|       |      |    |   |     |      |         |         |             |      |
|-------|------|----|---|-----|------|---------|---------|-------------|------|
|       |      |    |   | 30  | 3.87 | 1.400   | 0.0005  | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.87 | -0.500  | -0.0002 | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 3.87 | 1.800   | 0.0007  | -2.5 to 2.5 | Pass |
|       | 2595 | 50 | 0 | 20  | 3.65 | 0.900   | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 3.87 | -4.500  | -0.0017 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.45 | -2.100  | -0.0008 | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 3.87 | -3.500  | -0.0013 | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 3.87 | 2.100   | 0.0008  | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 3.87 | 0.800   | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 3.87 | -3.200  | -0.0012 | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 3.87 | 0.600   | 0.0002  | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 3.87 | 0.500   | 0.0002  | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.87 | -2.000  | -0.0008 | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 3.87 | -1.400  | -0.0005 | -2.5 to 2.5 | Pass |
|       | 2615 | 50 | 0 | 20  | 3.65 | -1.900  | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 3.87 | -2.100  | -0.0008 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.45 | -1.100  | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 3.87 | 0.400   | 0.0002  | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 3.87 | -3.600  | -0.0014 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 3.87 | 3.800   | 0.0015  | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 3.87 | -1.000  | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 3.87 | 1.300   | 0.0005  | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 3.87 | -3.000  | -0.0011 | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.87 | -0.600  | -0.0002 | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 3.87 | 0.500   | 0.0002  | -2.5 to 2.5 | Pass |
| 64QAM | 2575 | 50 | 0 | 20  | 3.65 | -29.500 | -0.0115 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 3.87 | -18.600 | -0.0072 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.45 | 1.100   | 0.0004  | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 3.87 | -21.800 | -0.0085 | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 3.87 | -1.900  | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 3.87 | -4.400  | -0.0017 | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 3.87 | -22.300 | -0.0087 | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 3.87 | 12.200  | 0.0047  | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 3.87 | 0.600   | 0.0002  | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.87 | -24.600 | -0.0096 | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 3.87 | -26.100 | -0.0101 | -2.5 to 2.5 | Pass |
|       | 2595 | 50 | 0 | 20  | 3.65 | -16.200 | -0.0062 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 3.87 | -21.600 | -0.0083 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.45 | -18.400 | -0.0071 | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 3.87 | -12.400 | -0.0048 | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 3.87 | -19.300 | -0.0074 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 3.87 | 20.200  | 0.0078  | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 3.87 | 11.200  | 0.0043  | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 3.87 | -19.000 | -0.0073 | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 3.87 | -18.700 | -0.0072 | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.87 | 10.900  | 0.0042  | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 3.87 | -8.700  | -0.0034 | -2.5 to 2.5 | Pass |
|       | 2615 | 50 | 0 | 20  | 3.65 | 19.100  | 0.0073  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 3.87 | -17.300 | -0.0066 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 4.45 | 2.100   | 0.0008  | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 3.87 | 3.100   | 0.0012  | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 3.87 | -7.100  | -0.0027 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 3.87 | -1.000  | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 3.87 | -22.100 | -0.0085 | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 3.87 | 12.700  | 0.0049  | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 3.87 | 18.700  | 0.0072  | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 3.87 | -3.600  | -0.0014 | -2.5 to 2.5 | Pass |

|        |      |    |   |     |      |        |         |             |      |
|--------|------|----|---|-----|------|--------|---------|-------------|------|
|        |      |    |   | 50  | 3.87 | 3.200  | 0.0012  | -2.5 to 2.5 | Pass |
| 256QAM | 2575 | 50 | 0 | 20  | 3.65 | 1.600  | 0.0006  | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 3.87 | -0.800 | -0.0003 | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 4.45 | -4.700 | -0.0018 | -2.5 to 2.5 | Pass |
|        |      |    |   | -30 | 3.87 | -0.500 | -0.0002 | -2.5 to 2.5 | Pass |
|        |      |    |   | -20 | 3.87 | -3.700 | -0.0014 | -2.5 to 2.5 | Pass |
|        |      |    |   | -10 | 3.87 | 0.700  | 0.0003  | -2.5 to 2.5 | Pass |
|        |      |    |   | 0   | 3.87 | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|        |      |    |   | 10  | 3.87 | -2.100 | -0.0008 | -2.5 to 2.5 | Pass |
|        |      |    |   | 30  | 3.87 | -2.700 | -0.0010 | -2.5 to 2.5 | Pass |
|        |      |    |   | 40  | 3.87 | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|        | 2595 | 50 | 0 | 50  | 3.87 | -1.600 | -0.0006 | -2.5 to 2.5 | Pass |
|        |      |    |   | 20  | 3.65 | -5.400 | -0.0021 | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 3.87 | -5.400 | -0.0021 | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 4.45 | -6.600 | -0.0025 | -2.5 to 2.5 | Pass |
|        |      |    |   | -30 | 3.87 | 2.100  | 0.0008  | -2.5 to 2.5 | Pass |
|        |      |    |   | -20 | 3.87 | -0.900 | -0.0003 | -2.5 to 2.5 | Pass |
|        |      |    |   | -10 | 3.87 | -3.800 | -0.0015 | -2.5 to 2.5 | Pass |
|        |      |    |   | 0   | 3.87 | -2.000 | -0.0008 | -2.5 to 2.5 | Pass |
|        |      |    |   | 10  | 3.87 | -0.300 | -0.0001 | -2.5 to 2.5 | Pass |
|        |      |    |   | 30  | 3.87 | 1.300  | 0.0005  | -2.5 to 2.5 | Pass |
|        | 2615 | 50 | 0 | 40  | 3.87 | -6.700 | -0.0026 | -2.5 to 2.5 | Pass |
|        |      |    |   | 50  | 3.87 | 4.900  | 0.0019  | -2.5 to 2.5 | Pass |
|        |      |    |   | 20  | 3.65 | -2.000 | -0.0008 | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 3.87 | -1.100 | -0.0004 | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 4.45 | -2.900 | -0.0011 | -2.5 to 2.5 | Pass |
|        |      |    |   | -30 | 3.87 | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|        |      |    |   | -20 | 3.87 | -0.500 | -0.0002 | -2.5 to 2.5 | Pass |
|        |      |    |   | -10 | 3.87 | -2.300 | -0.0009 | -2.5 to 2.5 | Pass |
|        |      |    |   | 0   | 3.87 | -1.200 | -0.0005 | -2.5 to 2.5 | Pass |
|        |      |    |   | 10  | 3.87 | 4.100  | 0.0016  | -2.5 to 2.5 | Pass |
|        |      |    |   | 30  | 3.87 | -1.200 | -0.0005 | -2.5 to 2.5 | Pass |
|        |      |    |   | 40  | 3.87 | 0.500  | 0.0002  | -2.5 to 2.5 | Pass |
|        |      |    |   | 50  | 3.87 | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |

### 2.1.3 B38\_15MHz

| Band: 38 / Bandwidth: 15MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 2577.5          | 75            | 0      | 20         | 3.65          | 4.200            | 0.0016                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.87          | 1.400            | 0.0005                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.45          | 0.200            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.87          | 1.600            | 0.0006                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.87          | -4.000           | -0.0016               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.87          | -3.500           | -0.0014               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.87          | 0.100            | 0.0000                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.87          | -5.500           | -0.0021               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.87          | -4.200           | -0.0016               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.87          | -1.100           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.87          | 2.200            | 0.0009                | -2.5 to 2.5 | Pass    |
|                             | 2595            | 75            | 0      | 20         | 3.65          | -3.100           | -0.0012               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.87          | -2.200           | -0.0008               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.45          | -1.200           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.87          | -4.000           | -0.0015               | -2.5 to 2.5 | Pass    |

|       |        |    |   |     |      |         |         |             |      |
|-------|--------|----|---|-----|------|---------|---------|-------------|------|
|       |        |    |   | -20 | 3.87 | 1.600   | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | -0.400  | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.87 | 0.000   | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.87 | -2.500  | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.87 | -1.700  | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.87 | -3.400  | -0.0013 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.87 | -3.600  | -0.0014 | -2.5 to 2.5 | Pass |
|       | 2612.5 | 75 | 0 | 20  | 3.65 | -2.700  | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | -1.500  | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | 1.100   | 0.0004  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | -2.800  | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | 2.200   | 0.0008  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | -2.200  | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.87 | 0.200   | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.87 | -5.000  | -0.0019 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.87 | -4.700  | -0.0018 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.87 | -1.200  | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.87 | -1.400  | -0.0005 | -2.5 to 2.5 | Pass |
| 16QAM | 2577.5 | 75 | 0 | 20  | 3.65 | -3.400  | -0.0013 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | -2.000  | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | -1.800  | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | -2.900  | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | -0.300  | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | -3.300  | -0.0013 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.87 | -0.600  | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.87 | -2.500  | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.87 | -3.400  | -0.0013 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.87 | 0.200   | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.87 | -2.300  | -0.0009 | -2.5 to 2.5 | Pass |
|       | 2595   | 75 | 0 | 20  | 3.65 | -6.600  | -0.0025 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | 0.300   | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | 0.300   | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | -3.600  | -0.0014 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | -1.400  | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | -1.800  | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.87 | -0.500  | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.87 | -1.100  | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.87 | -3.900  | -0.0015 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.87 | -4.600  | -0.0018 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.87 | 1.200   | 0.0005  | -2.5 to 2.5 | Pass |
|       | 2612.5 | 75 | 0 | 20  | 3.65 | -0.800  | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | -6.100  | -0.0023 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | -0.100  | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | -3.200  | -0.0012 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | -2.700  | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | 0.300   | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.87 | -2.600  | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.87 | -1.500  | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.87 | -2.900  | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.87 | -1.900  | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.87 | -1.600  | -0.0006 | -2.5 to 2.5 | Pass |
| 64QAM | 2577.5 | 75 | 0 | 20  | 3.65 | -7.500  | -0.0029 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.87 | -11.200 | -0.0043 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.45 | 2.700   | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.87 | -10.800 | -0.0042 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.87 | -4.100  | -0.0016 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.87 | -18.200 | -0.0071 | -2.5 to 2.5 | Pass |

|        |        |    |   |     |      |         |         |             |      |
|--------|--------|----|---|-----|------|---------|---------|-------------|------|
|        |        |    |   | 0   | 3.87 | -0.100  | 0.0000  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | 2.100   | 0.0008  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | -5.400  | -0.0021 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | -15.400 | -0.0060 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 3.87 | 16.300  | 0.0063  | -2.5 to 2.5 | Pass |
|        | 2595   | 75 | 0 | 20  | 3.65 | -10.900 | -0.0042 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | -1.000  | -0.0004 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | -4.600  | -0.0018 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | -8.000  | -0.0031 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | 12.000  | 0.0046  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | -15.400 | -0.0059 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | -18.700 | -0.0072 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | -16.800 | -0.0065 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | -5.300  | -0.0020 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | 12.400  | 0.0048  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 3.87 | 11.200  | 0.0043  | -2.5 to 2.5 | Pass |
|        | 2612.5 | 75 | 0 | 20  | 3.65 | 4.100   | 0.0016  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | 3.100   | 0.0012  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | -9.800  | -0.0038 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | -17.600 | -0.0067 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | 7.100   | 0.0027  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | -11.200 | -0.0043 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | 17.300  | 0.0066  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | -17.400 | -0.0067 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | 22.400  | 0.0086  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | -19.500 | -0.0075 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 3.87 | -1.100  | -0.0004 | -2.5 to 2.5 | Pass |
| 256QAM | 2577.5 | 75 | 0 | 20  | 3.65 | -2.400  | -0.0009 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | -1.300  | -0.0005 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | -3.700  | -0.0014 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | -3.200  | -0.0012 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | -3.800  | -0.0015 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | -2.900  | -0.0011 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | -0.500  | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | -2.600  | -0.0010 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | -2.100  | -0.0008 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | -0.300  | -0.0001 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 3.87 | -3.700  | -0.0014 | -2.5 to 2.5 | Pass |
|        | 2595   | 75 | 0 | 20  | 3.65 | -2.200  | -0.0008 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | -3.200  | -0.0012 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | -1.000  | -0.0004 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | 0.800   | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | 2.700   | 0.0010  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | -0.900  | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | -1.400  | -0.0005 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | -0.600  | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 3.87 | -5.000  | -0.0019 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 3.87 | 2.300   | 0.0009  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 3.87 | -1.100  | -0.0004 | -2.5 to 2.5 | Pass |
|        | 2612.5 | 75 | 0 | 20  | 3.65 | -0.500  | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 3.87 | 0.100   | 0.0000  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 4.45 | -2.400  | -0.0009 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 3.87 | 0.200   | 0.0001  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 3.87 | -1.400  | -0.0005 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 3.87 | -2.700  | -0.0010 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 3.87 | -1.700  | -0.0007 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 3.87 | 0.800   | 0.0003  | -2.5 to 2.5 | Pass |

|  |  |  |  |    |      |        |         |             |      |
|--|--|--|--|----|------|--------|---------|-------------|------|
|  |  |  |  | 30 | 3.87 | -3.000 | -0.0011 | -2.5 to 2.5 | Pass |
|  |  |  |  | 40 | 3.87 | -2.300 | -0.0009 | -2.5 to 2.5 | Pass |
|  |  |  |  | 50 | 3.87 | -5.500 | -0.0021 | -2.5 to 2.5 | Pass |

## 2.1.4 B38\_20MHz

| Band: 38 / Bandwidth: 20MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 2580            | 100           | 0      | 20         | 3.65          | -5.400           | -0.0021               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.87          | 1.400            | 0.0005                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.45          | -3.000           | -0.0012               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.87          | -2.500           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.87          | -5.800           | -0.0022               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.87          | -2.700           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.87          | -5.400           | -0.0021               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.87          | -0.700           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.87          | -0.800           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.87          | -1.100           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.87          | 0.400            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             | 2595            | 100           | 0      | 20         | 3.65          | 2.500            | 0.0010                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.87          | 1.300            | 0.0005                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.45          | 0.900            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.87          | 1.200            | 0.0005                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.87          | -2.300           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.87          | 2.100            | 0.0008                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.87          | -2.700           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.87          | -3.000           | -0.0012               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.87          | -2.000           | -0.0008               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.87          | -0.100           | 0.0000                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.87          | -7.800           | -0.0030               | -2.5 to 2.5 | Pass    |
|                             | 2610            | 100           | 0      | 20         | 3.65          | -3.500           | -0.0013               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.87          | -0.600           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.45          | -0.800           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.87          | -0.100           | 0.0000                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.87          | -1.600           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.87          | -3.800           | -0.0015               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.87          | -1.500           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.87          | 0.100            | 0.0000                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.87          | -0.400           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.87          | -0.500           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.87          | -1.700           | -0.0007               | -2.5 to 2.5 | Pass    |
| 16QAM                       | 2580            | 100           | 0      | 20         | 3.65          | -0.800           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.87          | -2.400           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.45          | -1.800           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.87          | -4.600           | -0.0018               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.87          | -0.900           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.87          | -1.100           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.87          | -1.300           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.87          | 1.100            | 0.0004                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.87          | -3.600           | -0.0014               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.87          | -0.400           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.87          | -2.400           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             | 2595            | 100           | 0      | 20         | 3.65          | 0.000            | 0.0000                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.87          | -3.600           | -0.0014               | -2.5 to 2.5 | Pass    |

|        |      |     |   |     |      |         |         |             |      |
|--------|------|-----|---|-----|------|---------|---------|-------------|------|
|        |      |     |   |     | 4.45 | -7.400  | -0.0029 | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 3.87 | -0.800  | -0.0003 | -2.5 to 2.5 | Pass |
|        |      |     |   | -20 | 3.87 | -4.800  | -0.0018 | -2.5 to 2.5 | Pass |
|        |      |     |   | -10 | 3.87 | -1.200  | -0.0005 | -2.5 to 2.5 | Pass |
|        |      |     |   | 0   | 3.87 | -0.300  | -0.0001 | -2.5 to 2.5 | Pass |
|        |      |     |   | 10  | 3.87 | -1.200  | -0.0005 | -2.5 to 2.5 | Pass |
|        |      |     |   | 30  | 3.87 | -3.600  | -0.0014 | -2.5 to 2.5 | Pass |
|        |      |     |   | 40  | 3.87 | 0.200   | 0.0001  | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 3.87 | -1.000  | -0.0004 | -2.5 to 2.5 | Pass |
|        | 2610 | 100 | 0 | 20  | 3.65 | -4.000  | -0.0015 | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 3.87 | -0.400  | -0.0002 | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 4.45 | -2.900  | -0.0011 | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 3.87 | -1.100  | -0.0004 | -2.5 to 2.5 | Pass |
|        |      |     |   | -20 | 3.87 | 0.800   | 0.0003  | -2.5 to 2.5 | Pass |
|        |      |     |   | -10 | 3.87 | -2.800  | -0.0011 | -2.5 to 2.5 | Pass |
|        |      |     |   | 0   | 3.87 | -6.100  | -0.0023 | -2.5 to 2.5 | Pass |
|        |      |     |   | 10  | 3.87 | -1.800  | -0.0007 | -2.5 to 2.5 | Pass |
|        |      |     |   | 30  | 3.87 | -2.500  | -0.0010 | -2.5 to 2.5 | Pass |
|        |      |     |   | 40  | 3.87 | -0.900  | -0.0003 | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 3.87 | -2.600  | -0.0010 | -2.5 to 2.5 | Pass |
| 64QAM  | 2580 | 100 | 0 | 20  | 3.65 | -14.600 | -0.0057 | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 3.87 | -3.000  | -0.0012 | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 4.45 | -9.500  | -0.0037 | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 3.87 | -20.300 | -0.0079 | -2.5 to 2.5 | Pass |
|        |      |     |   | -20 | 3.87 | 4.000   | 0.0016  | -2.5 to 2.5 | Pass |
|        |      |     |   | -10 | 3.87 | 3.200   | 0.0012  | -2.5 to 2.5 | Pass |
|        |      |     |   | 0   | 3.87 | -3.500  | -0.0014 | -2.5 to 2.5 | Pass |
|        |      |     |   | 10  | 3.87 | -6.200  | -0.0024 | -2.5 to 2.5 | Pass |
|        |      |     |   | 30  | 3.87 | -5.600  | -0.0022 | -2.5 to 2.5 | Pass |
|        |      |     |   | 40  | 3.87 | 2.600   | 0.0010  | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 3.87 | -13.100 | -0.0051 | -2.5 to 2.5 | Pass |
|        | 2595 | 100 | 0 | 20  | 3.65 | 1.000   | 0.0004  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 3.87 | -5.200  | -0.0020 | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 4.45 | -1.400  | -0.0005 | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 3.87 | -13.900 | -0.0054 | -2.5 to 2.5 | Pass |
|        |      |     |   | -20 | 3.87 | -15.600 | -0.0060 | -2.5 to 2.5 | Pass |
|        |      |     |   | -10 | 3.87 | -11.100 | -0.0043 | -2.5 to 2.5 | Pass |
|        |      |     |   | 0   | 3.87 | -9.400  | -0.0036 | -2.5 to 2.5 | Pass |
|        |      |     |   | 10  | 3.87 | -7.200  | -0.0028 | -2.5 to 2.5 | Pass |
|        |      |     |   | 30  | 3.87 | -3.700  | -0.0014 | -2.5 to 2.5 | Pass |
|        |      |     |   | 40  | 3.87 | 1.800   | 0.0007  | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 3.87 | 2.900   | 0.0011  | -2.5 to 2.5 | Pass |
|        | 2610 | 100 | 0 | 20  | 3.65 | -9.500  | -0.0036 | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 3.87 | 8.300   | 0.0032  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 4.45 | 1.900   | 0.0007  | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 3.87 | -11.700 | -0.0045 | -2.5 to 2.5 | Pass |
|        |      |     |   | -20 | 3.87 | 6.800   | 0.0026  | -2.5 to 2.5 | Pass |
|        |      |     |   | -10 | 3.87 | -11.300 | -0.0043 | -2.5 to 2.5 | Pass |
|        |      |     |   | 0   | 3.87 | -6.100  | -0.0023 | -2.5 to 2.5 | Pass |
|        |      |     |   | 10  | 3.87 | 12.200  | 0.0047  | -2.5 to 2.5 | Pass |
|        |      |     |   | 30  | 3.87 | -3.900  | -0.0015 | -2.5 to 2.5 | Pass |
|        |      |     |   | 40  | 3.87 | 3.900   | 0.0015  | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 3.87 | 8.400   | 0.0032  | -2.5 to 2.5 | Pass |
| 256QAM | 2580 | 100 | 0 | 20  | 3.65 | 1.000   | 0.0004  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 3.87 | -1.600  | -0.0006 | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 4.45 | -6.200  | -0.0024 | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 3.87 | 2.200   | 0.0009  | -2.5 to 2.5 | Pass |

|  |      |     |   |     |      |        |         |             |      |
|--|------|-----|---|-----|------|--------|---------|-------------|------|
|  |      |     |   | -20 | 3.87 | 0.700  | 0.0003  | -2.5 to 2.5 | Pass |
|  |      |     |   | -10 | 3.87 | -1.900 | -0.0007 | -2.5 to 2.5 | Pass |
|  |      |     |   | 0   | 3.87 | -1.600 | -0.0006 | -2.5 to 2.5 | Pass |
|  |      |     |   | 10  | 3.87 | -4.000 | -0.0016 | -2.5 to 2.5 | Pass |
|  |      |     |   | 30  | 3.87 | 2.700  | 0.0010  | -2.5 to 2.5 | Pass |
|  |      |     |   | 40  | 3.87 | -3.700 | -0.0014 | -2.5 to 2.5 | Pass |
|  |      |     |   | 50  | 3.87 | -3.700 | -0.0014 | -2.5 to 2.5 | Pass |
|  | 2595 | 100 | 0 | 20  | 3.65 | 0.300  | 0.0001  | -2.5 to 2.5 | Pass |
|  |      |     |   |     | 3.87 | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|  |      |     |   |     | 4.45 | -1.600 | -0.0006 | -2.5 to 2.5 | Pass |
|  |      |     |   | -30 | 3.87 | -1.400 | -0.0005 | -2.5 to 2.5 | Pass |
|  |      |     |   | -20 | 3.87 | -1.800 | -0.0007 | -2.5 to 2.5 | Pass |
|  |      |     |   | -10 | 3.87 | -1.400 | -0.0005 | -2.5 to 2.5 | Pass |
|  |      |     |   | 0   | 3.87 | -0.400 | -0.0002 | -2.5 to 2.5 | Pass |
|  |      |     |   | 10  | 3.87 | -0.400 | -0.0002 | -2.5 to 2.5 | Pass |
|  |      |     |   | 30  | 3.87 | -3.400 | -0.0013 | -2.5 to 2.5 | Pass |
|  |      |     |   | 40  | 3.87 | -2.800 | -0.0011 | -2.5 to 2.5 | Pass |
|  |      |     |   | 50  | 3.87 | -5.100 | -0.0020 | -2.5 to 2.5 | Pass |
|  | 2610 | 100 | 0 | 20  | 3.65 | -1.200 | -0.0005 | -2.5 to 2.5 | Pass |
|  |      |     |   |     | 3.87 | -0.500 | -0.0002 | -2.5 to 2.5 | Pass |
|  |      |     |   |     | 4.45 | -1.100 | -0.0004 | -2.5 to 2.5 | Pass |
|  |      |     |   | -30 | 3.87 | -2.000 | -0.0008 | -2.5 to 2.5 | Pass |
|  |      |     |   | -20 | 3.87 | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|  |      |     |   | -10 | 3.87 | 0.300  | 0.0001  | -2.5 to 2.5 | Pass |
|  |      |     |   | 0   | 3.87 | -5.300 | -0.0020 | -2.5 to 2.5 | Pass |
|  |      |     |   | 10  | 3.87 | -2.700 | -0.0010 | -2.5 to 2.5 | Pass |
|  |      |     |   | 30  | 3.87 | -3.800 | -0.0015 | -2.5 to 2.5 | Pass |
|  |      |     |   | 40  | 3.87 | -1.100 | -0.0004 | -2.5 to 2.5 | Pass |
|  |      |     |   | 50  | 3.87 | -2.500 | -0.0010 | -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       | 2572.5          | 25            | 0      | 4.554                        | /     | Pass    |
|                 |            | 2595            | 25            | 0      | 4.559                        | /     | Pass    |
|                 |            | 2617.5          | 25            | 0      | 4.539                        | /     | Pass    |
|                 | 16QAM      | 2572.5          | 25            | 0      | 4.572                        | /     | Pass    |
|                 |            | 2595            | 25            | 0      | 4.561                        | /     | Pass    |
|                 |            | 2617.5          | 25            | 0      | 4.544                        | /     | Pass    |
|                 | 64QAM      | 2572.5          | 25            | 0      | 4.549                        | /     | Pass    |
|                 |            | 2595            | 25            | 0      | 4.579                        | /     | Pass    |
|                 |            | 2617.5          | 25            | 0      | 4.555                        | /     | Pass    |
|                 | 256QAM     | 2572.5          | 25            | 0      | 4.549                        | /     | Pass    |
|                 |            | 2595            | 25            | 0      | 4.544                        | /     | Pass    |
|                 |            | 2617.5          | 25            | 0      | 4.557                        | /     | Pass    |
| 10              | QPSK       | 2575            | 50            | 0      | 9.093                        | /     | Pass    |
|                 |            | 2595            | 50            | 0      | 9.091                        | /     | Pass    |
|                 |            | 2615            | 50            | 0      | 9.073                        | /     | Pass    |

|    |        |        |     |   |        |   |      |
|----|--------|--------|-----|---|--------|---|------|
|    | 16QAM  | 2575   | 50  | 0 | 9.072  | / | Pass |
|    |        | 2595   | 50  | 0 | 9.111  | / | Pass |
|    |        | 2615   | 50  | 0 | 9.063  | / | Pass |
|    | 64QAM  | 2575   | 50  | 0 | 9.083  | / | Pass |
|    |        | 2595   | 50  | 0 | 9.120  | / | Pass |
|    |        | 2615   | 50  | 0 | 9.046  | / | Pass |
|    | 256QAM | 2575   | 50  | 0 | 9.103  | / | Pass |
|    |        | 2595   | 50  | 0 | 9.047  | / | Pass |
|    |        | 2615   | 50  | 0 | 9.077  | / | Pass |
| 15 | QPSK   | 2577.5 | 75  | 0 | 13.612 | / | Pass |
|    |        | 2595   | 75  | 0 | 13.629 | / | Pass |
|    |        | 2612.5 | 75  | 0 | 13.619 | / | Pass |
|    | 16QAM  | 2577.5 | 75  | 0 | 13.593 | / | Pass |
|    |        | 2595   | 75  | 0 | 13.623 | / | Pass |
|    |        | 2612.5 | 75  | 0 | 13.606 | / | Pass |
|    | 64QAM  | 2577.5 | 75  | 0 | 13.608 | / | Pass |
|    |        | 2595   | 75  | 0 | 13.649 | / | Pass |
|    |        | 2612.5 | 75  | 0 | 13.573 | / | Pass |
| 20 | QPSK   | 2577.5 | 75  | 0 | 13.615 | / | Pass |
|    |        | 2595   | 75  | 0 | 13.603 | / | Pass |
|    |        | 2612.5 | 75  | 0 | 13.596 | / | Pass |
|    | 16QAM  | 2580   | 100 | 0 | 18.137 | / | Pass |
|    |        | 2595   | 100 | 0 | 18.139 | / | Pass |
|    |        | 2610   | 100 | 0 | 18.090 | / | Pass |
|    | 64QAM  | 2580   | 100 | 0 | 18.119 | / | Pass |
|    |        | 2595   | 100 | 0 | 18.131 | / | Pass |
|    |        | 2610   | 100 | 0 | 18.144 | / | Pass |
|    | QPSK   | 2580   | 100 | 0 | 18.083 | / | Pass |
|    |        | 2595   | 100 | 0 | 18.108 | / | Pass |
|    |        | 2610   | 100 | 0 | 18.099 | / | Pass |
|    | 16QAM  | 2580   | 100 | 0 | 18.101 | / | Pass |
|    |        | 2595   | 100 | 0 | 18.161 | / | Pass |
|    |        | 2610   | 100 | 0 | 18.128 | / | Pass |
|    | 64QAM  | 2580   | 100 | 0 | 18.137 | / | Pass |
|    |        | 2595   | 100 | 0 | 18.139 | / | Pass |
|    |        | 2610   | 100 | 0 | 18.090 | / | Pass |

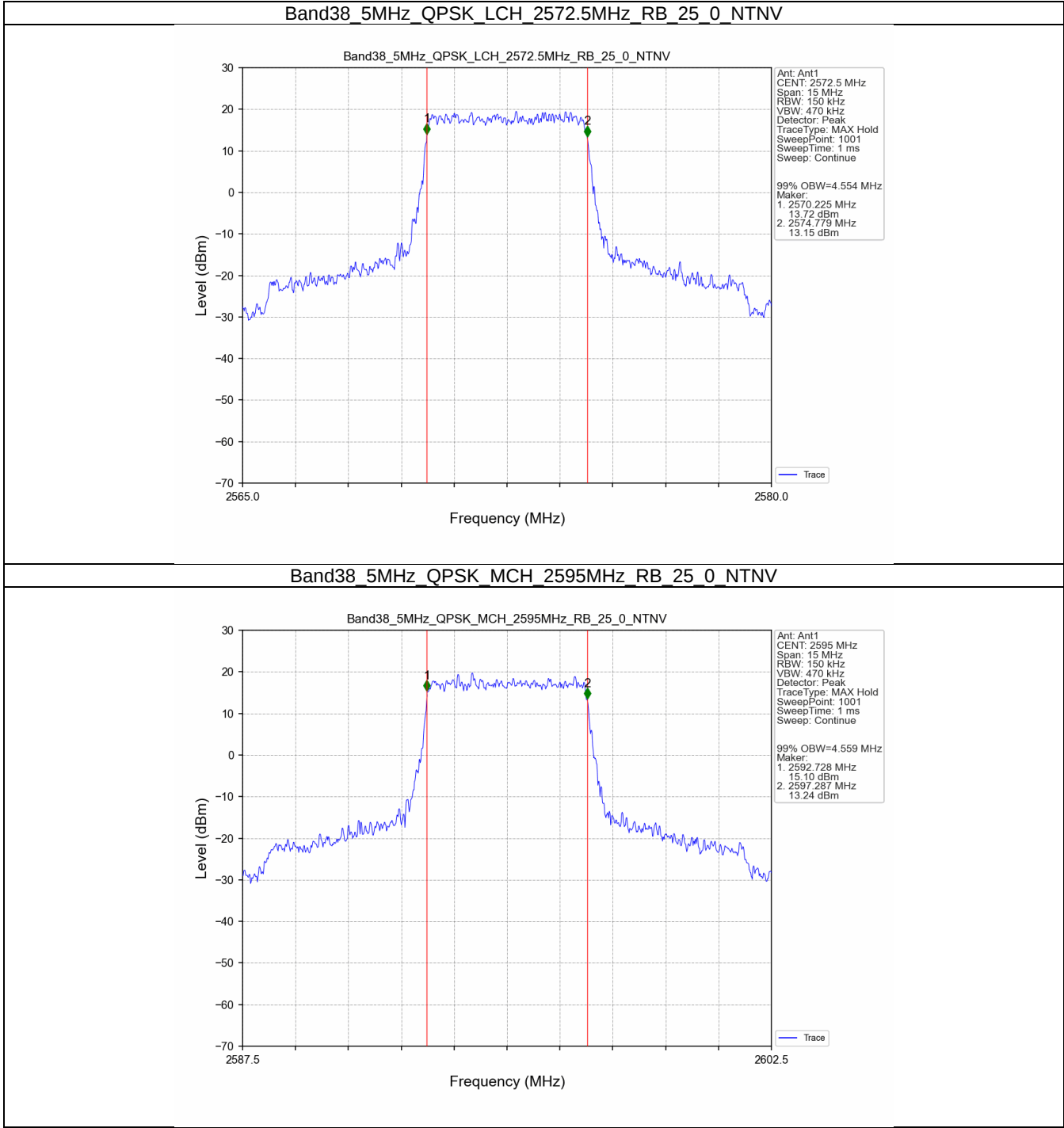
### 3.1.2 Band38\_XDB

| Band: 38 / NTV  |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 5               | QPSK       | 2572.5          | 25            | 0      | 5.265                | /     | Pass    |
|                 |            | 2595            | 25            | 0      | 5.194                | /     | Pass    |
|                 |            | 2617.5          | 25            | 0      | 5.221                | /     | Pass    |
|                 | 16QAM      | 2572.5          | 25            | 0      | 5.285                | /     | Pass    |
|                 |            | 2595            | 25            | 0      | 5.159                | /     | Pass    |
|                 |            | 2617.5          | 25            | 0      | 5.302                | /     | Pass    |
|                 | 64QAM      | 2572.5          | 25            | 0      | 5.216                | /     | Pass    |
|                 |            | 2595            | 25            | 0      | 5.298                | /     | Pass    |
|                 |            | 2617.5          | 25            | 0      | 5.248                | /     | Pass    |
| 10              | QPSK       | 2572.5          | 25            | 0      | 5.198                | /     | Pass    |
|                 |            | 2595            | 25            | 0      | 5.168                | /     | Pass    |
|                 |            | 2617.5          | 25            | 0      | 5.170                | /     | Pass    |
|                 | 16QAM      | 2575            | 50            | 0      | 10.149               | /     | Pass    |
|                 |            | 2595            | 50            | 0      | 10.166               | /     | Pass    |
|                 |            | 2615            | 50            | 0      | 10.118               | /     | Pass    |
|                 | 64QAM      | 2575            | 50            | 0      | 10.171               | /     | Pass    |
|                 |            | 2595            | 50            | 0      | 10.166               | /     | Pass    |
|                 |            | 2615            | 50            | 0      | 10.118               | /     | Pass    |

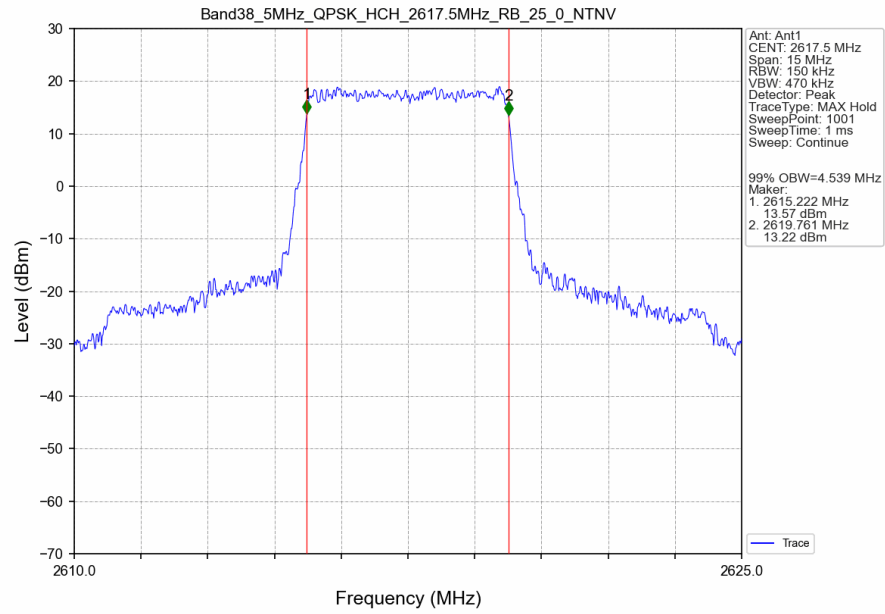
|    |        |        |     |   |        |   |      |
|----|--------|--------|-----|---|--------|---|------|
|    |        | 2595   | 50  | 0 | 10.062 | / | Pass |
|    |        | 2615   | 50  | 0 | 10.148 | / | Pass |
|    | 64QAM  | 2575   | 50  | 0 | 10.137 | / | Pass |
|    |        | 2595   | 50  | 0 | 10.132 | / | Pass |
|    |        | 2615   | 50  | 0 | 10.226 | / | Pass |
|    | 256QAM | 2575   | 50  | 0 | 10.175 | / | Pass |
|    |        | 2595   | 50  | 0 | 10.132 | / | Pass |
|    |        | 2615   | 50  | 0 | 10.088 | / | Pass |
| 15 | QPSK   | 2577.5 | 75  | 0 | 15.289 | / | Pass |
|    |        | 2595   | 75  | 0 | 15.162 | / | Pass |
|    |        | 2612.5 | 75  | 0 | 15.290 | / | Pass |
|    | 16QAM  | 2577.5 | 75  | 0 | 15.121 | / | Pass |
|    |        | 2595   | 75  | 0 | 15.085 | / | Pass |
|    |        | 2612.5 | 75  | 0 | 15.299 | / | Pass |
|    | 64QAM  | 2577.5 | 75  | 0 | 15.325 | / | Pass |
|    |        | 2595   | 75  | 0 | 15.125 | / | Pass |
|    |        | 2612.5 | 75  | 0 | 15.108 | / | Pass |
|    | 256QAM | 2577.5 | 75  | 0 | 15.119 | / | Pass |
|    |        | 2595   | 75  | 0 | 15.053 | / | Pass |
|    |        | 2612.5 | 75  | 0 | 15.248 | / | Pass |
| 20 | QPSK   | 2580   | 100 | 0 | 20.148 | / | Pass |
|    |        | 2595   | 100 | 0 | 20.020 | / | Pass |
|    |        | 2610   | 100 | 0 | 20.051 | / | Pass |
|    | 16QAM  | 2580   | 100 | 0 | 19.981 | / | Pass |
|    |        | 2595   | 100 | 0 | 20.082 | / | Pass |
|    |        | 2610   | 100 | 0 | 20.028 | / | Pass |
|    | 64QAM  | 2580   | 100 | 0 | 20.007 | / | Pass |
|    |        | 2595   | 100 | 0 | 20.030 | / | Pass |
|    |        | 2610   | 100 | 0 | 19.857 | / | Pass |
|    | 256QAM | 2580   | 100 | 0 | 20.143 | / | Pass |
|    |        | 2595   | 100 | 0 | 20.087 | / | Pass |
|    |        | 2610   | 100 | 0 | 20.021 | / | Pass |

3.2 Test Graph

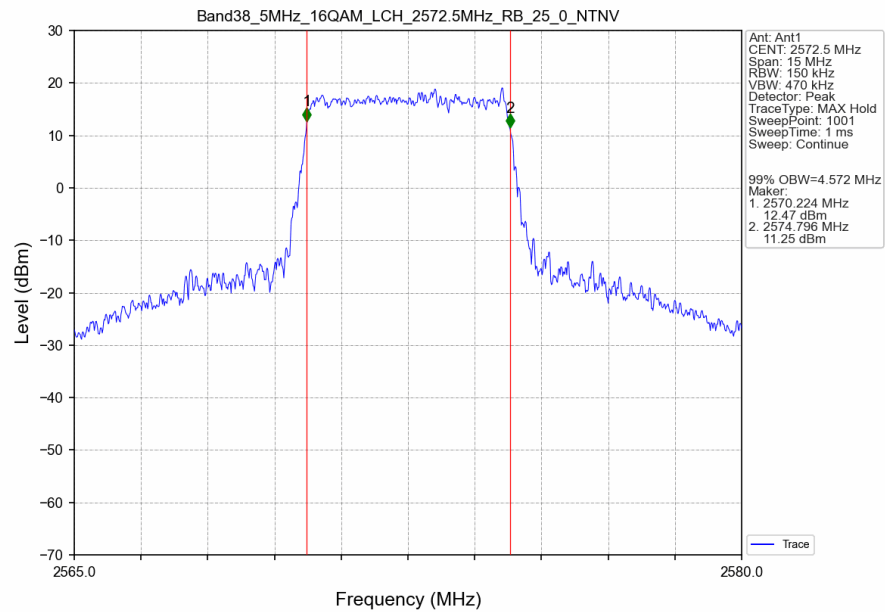
3.2.1 Band38\_OBW



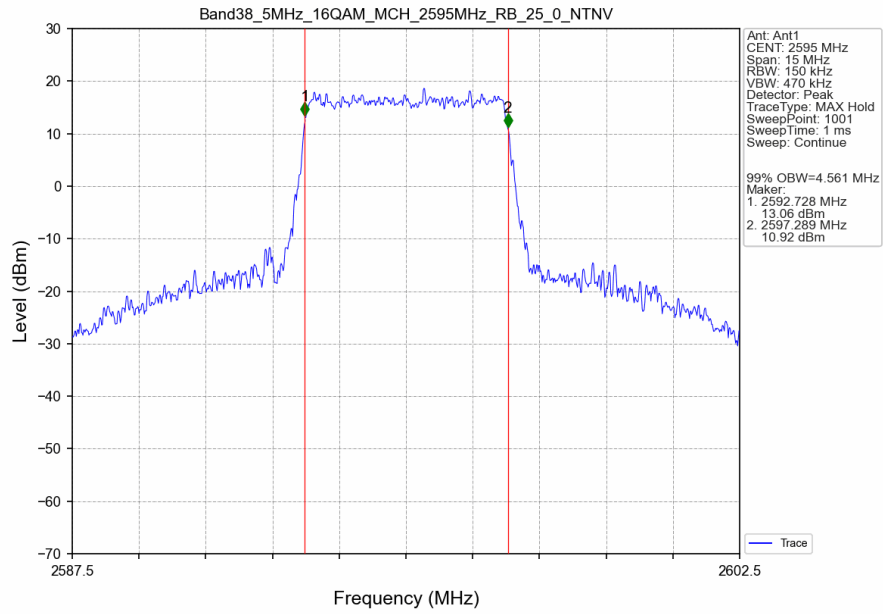
# Band38 5MHz QPSK HCH 2617.5MHz RB 25 0 NTN



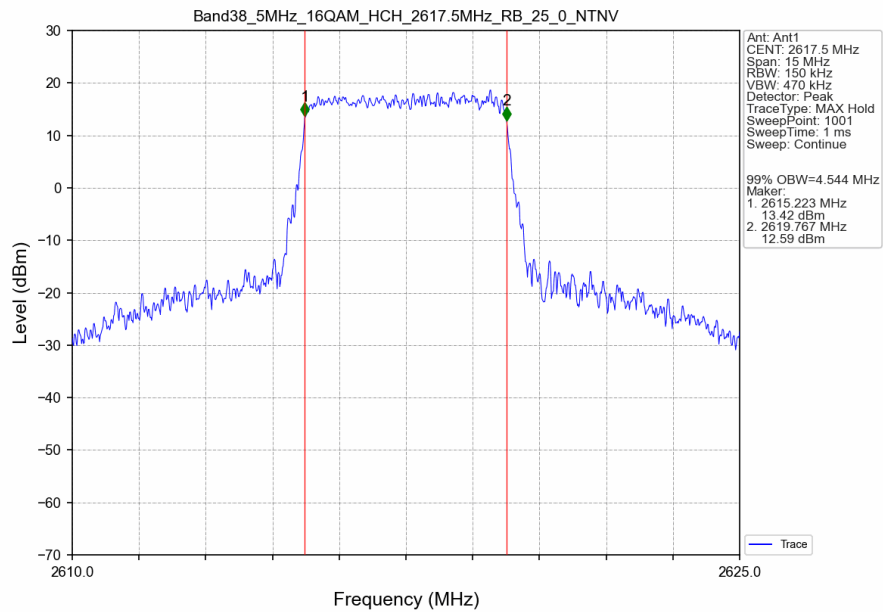
# Band38 5MHz 16QAM LCH 2572.5MHz RB 25 0 NTN



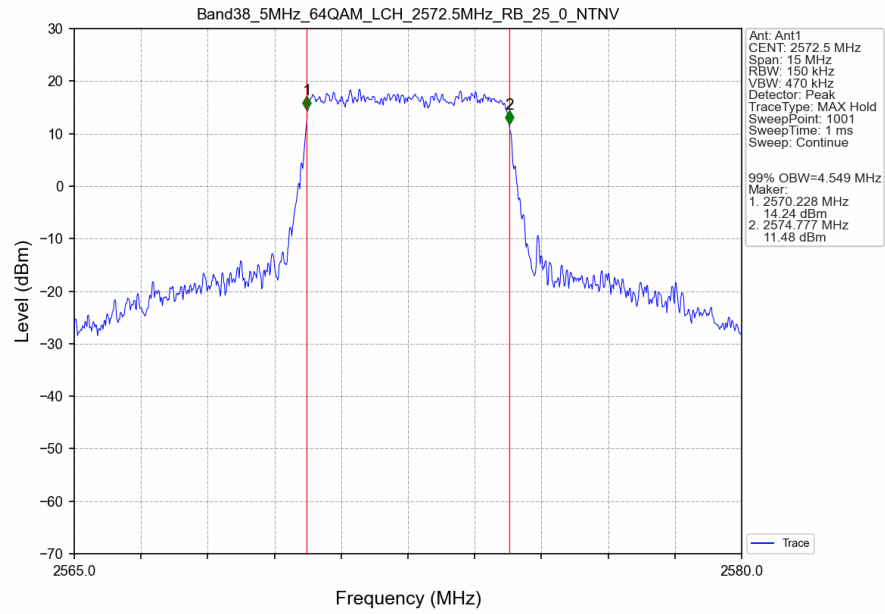
# Band38 5MHz 16QAM MCH 2595MHz RB 25 0 NTN



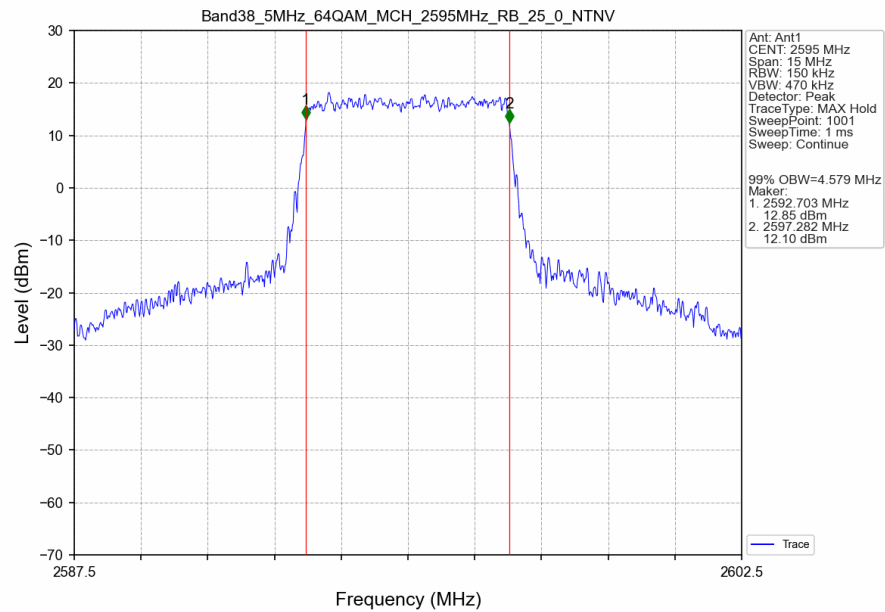
# Band38 5MHz 16QAM HCH 2617.5MHz RB 25 0 NTN



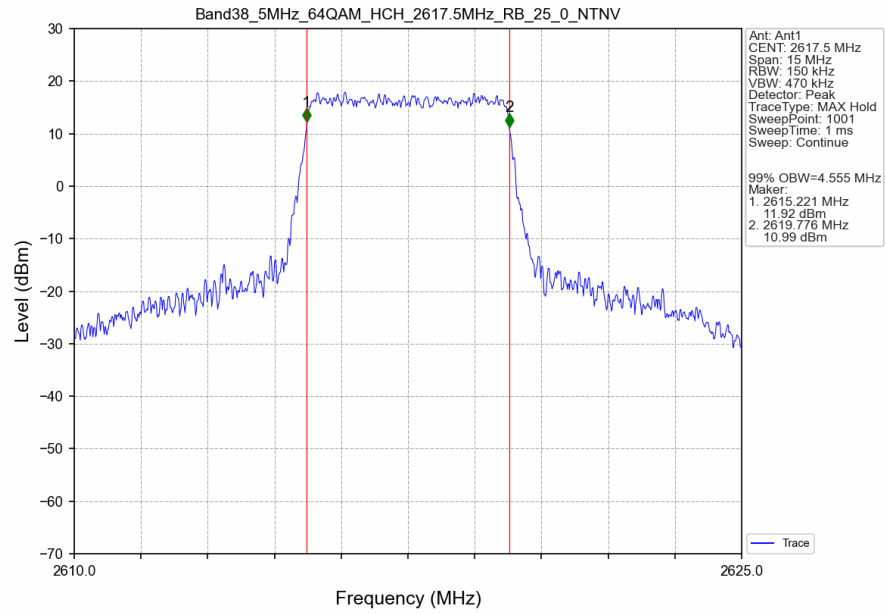
# Band38 5MHz 64QAM LCH 2572.5MHz RB 25 0 NTNV



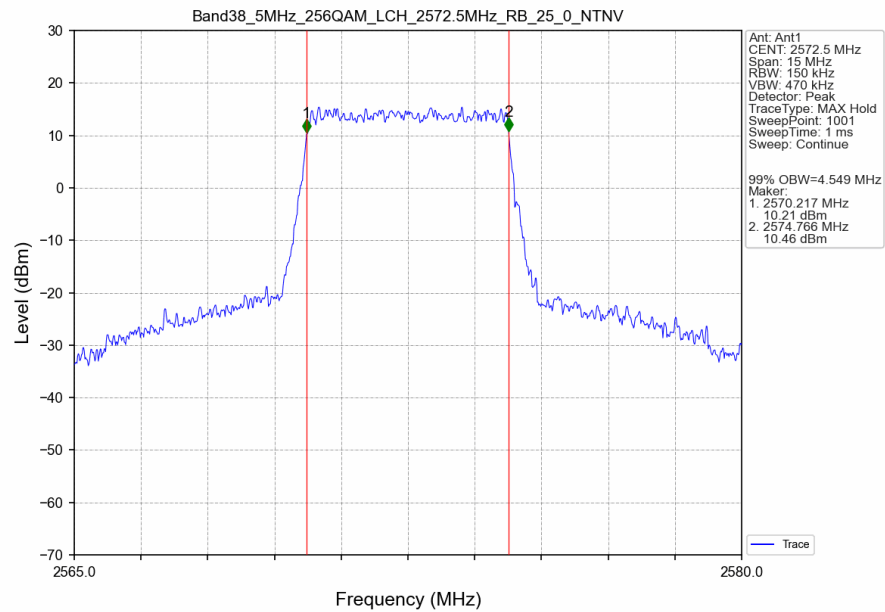
# Band38 5MHz 64QAM MCH 2595MHz RB 25 0 NTNV



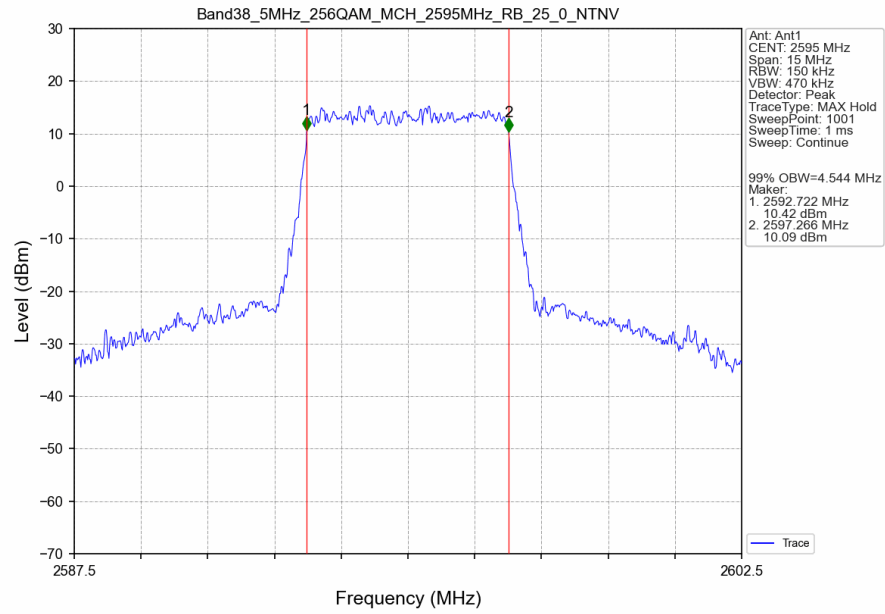
# Band38 5MHz 64QAM HCH 2617.5MHz RB 25\_0 NTN



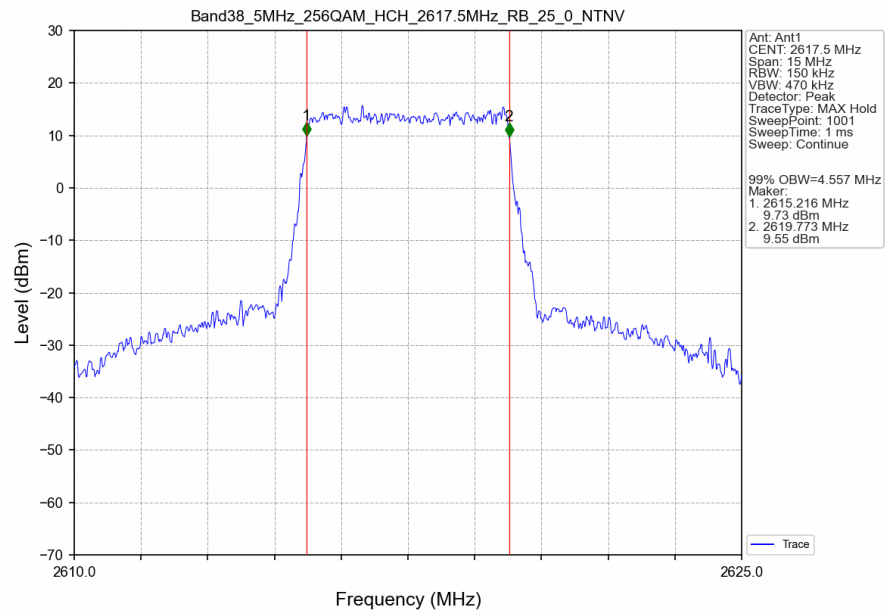
# Band38 5MHz 256QAM LCH 2572.5MHz RB 25\_0 NTN



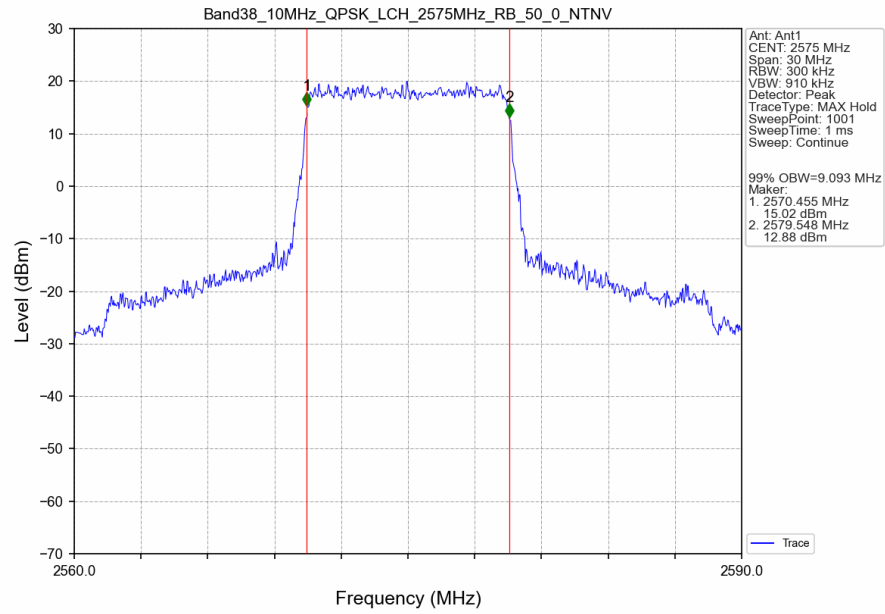
# Band38 5MHz 256QAM MCH 2595MHz RB 25 0 NTN



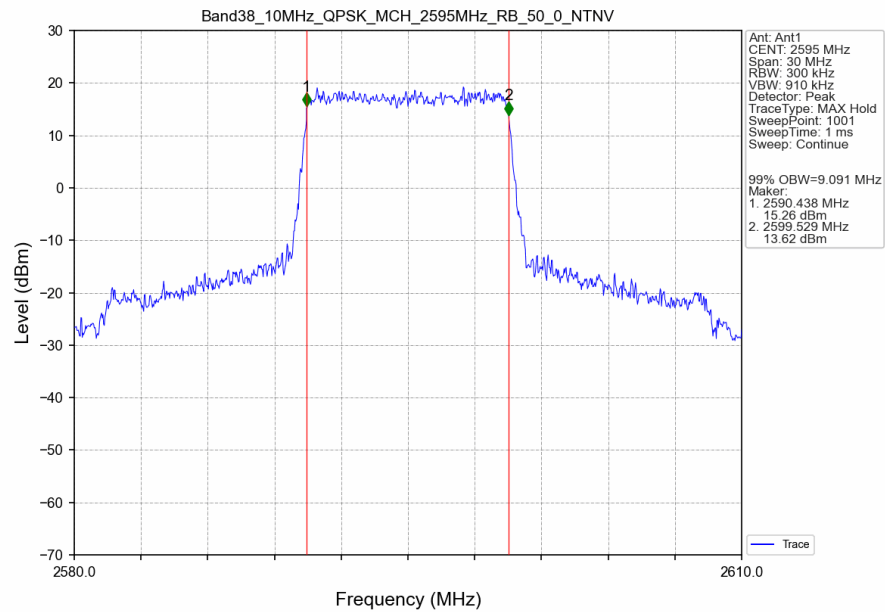
# Band38 5MHz 256QAM HCH 2617.5MHz RB 25 0 NTN



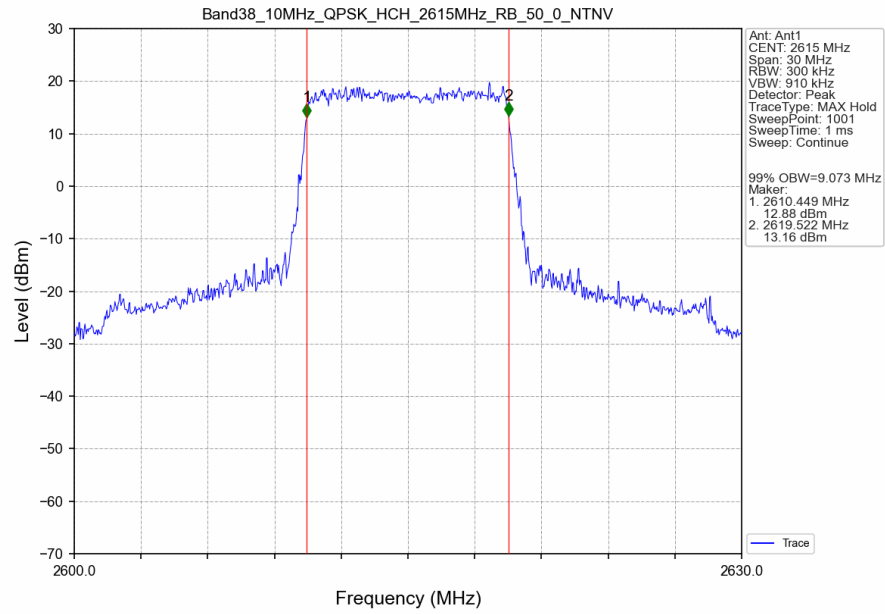
# Band38\_10MHz\_QPSK\_LCH\_2575MHz\_RB\_50\_0\_NTNV



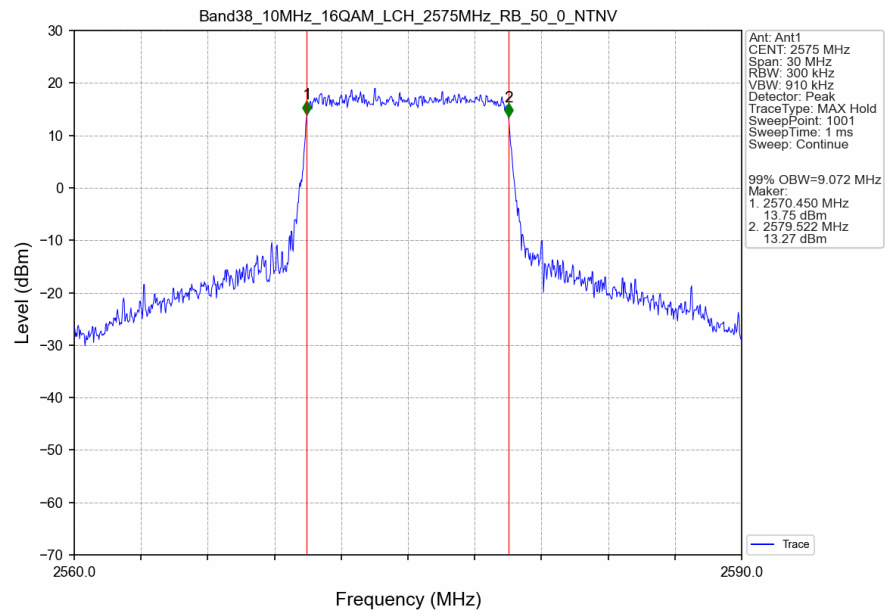
# Band38\_10MHz\_QPSK\_MCH\_2595MHz\_RB\_50\_0\_NTNV



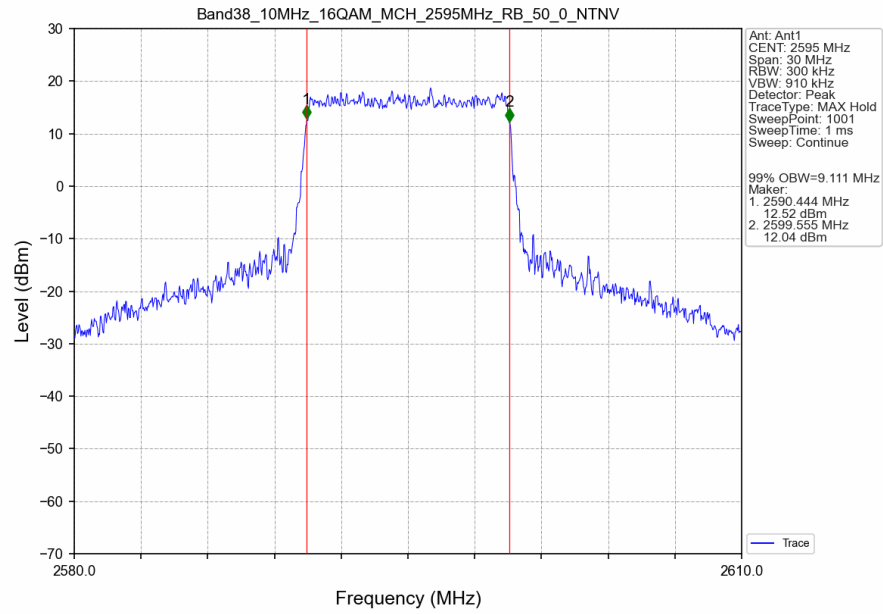
# Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_50\_0\_NTNV



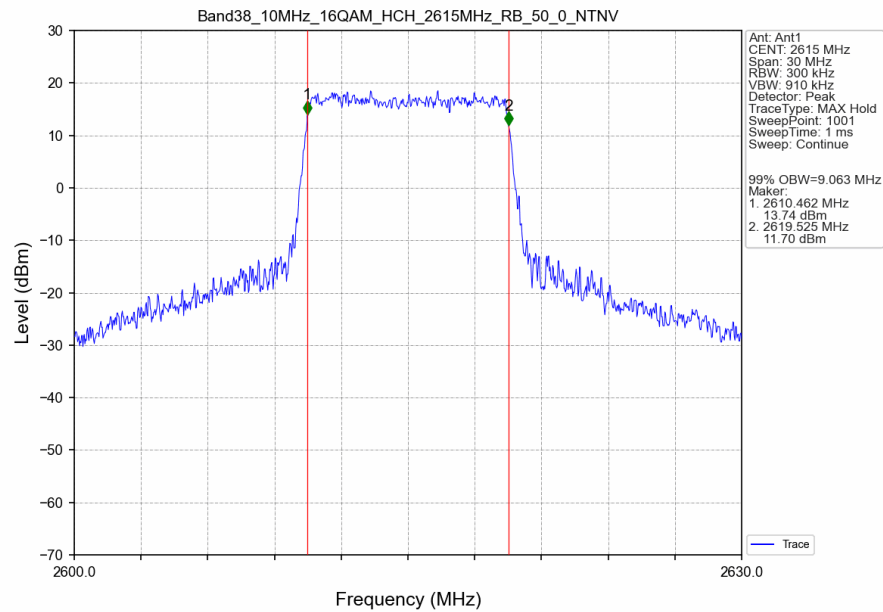
# Band38\_10MHz\_16QAM\_LCH\_2575MHz\_RB\_50\_0\_NTNV



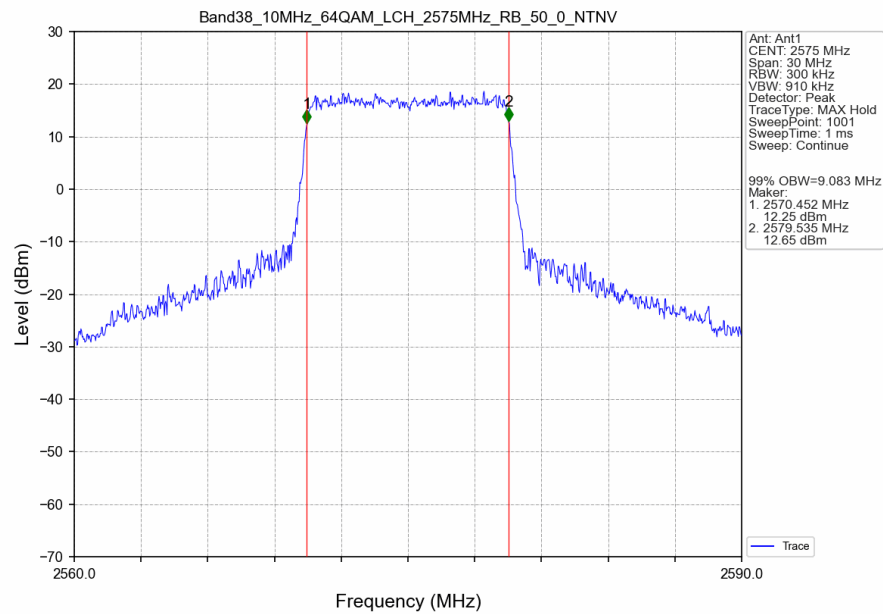
# Band38 10MHz 16QAM MCH 2595MHz RB 50 0 NTN



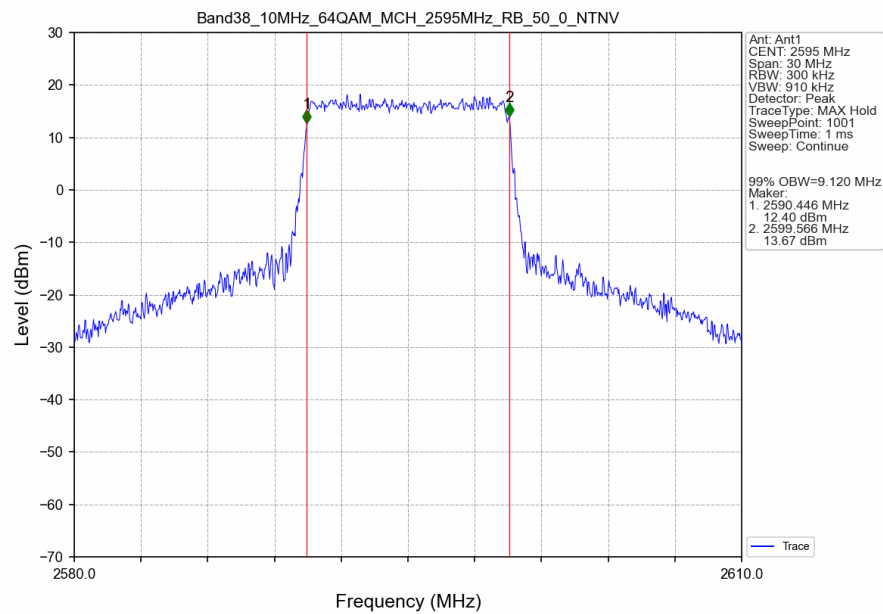
# Band38 10MHz 16QAM HCH 2615MHz RB 50 0 NTN



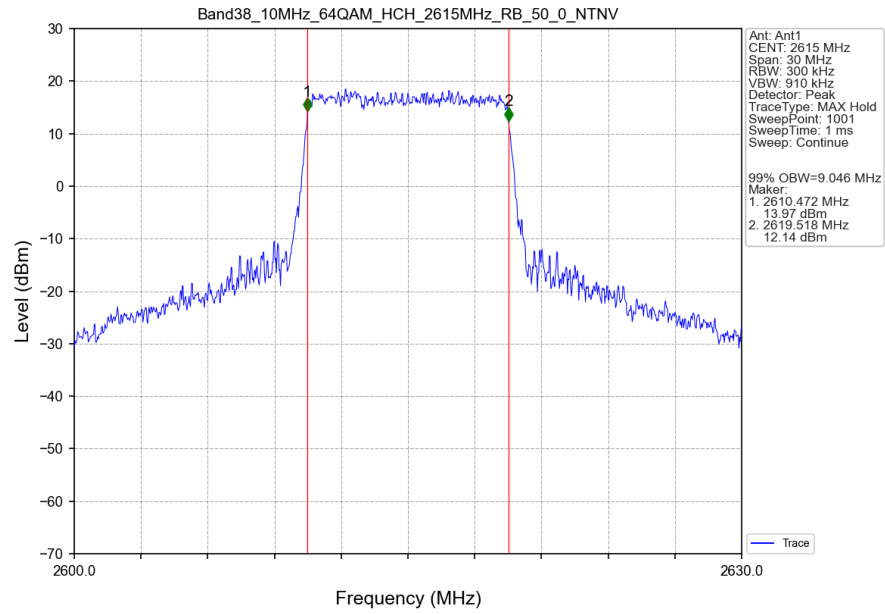
Band38\_10MHz\_64QAM\_LCH\_2575MHz\_RB\_50\_0\_NTNV



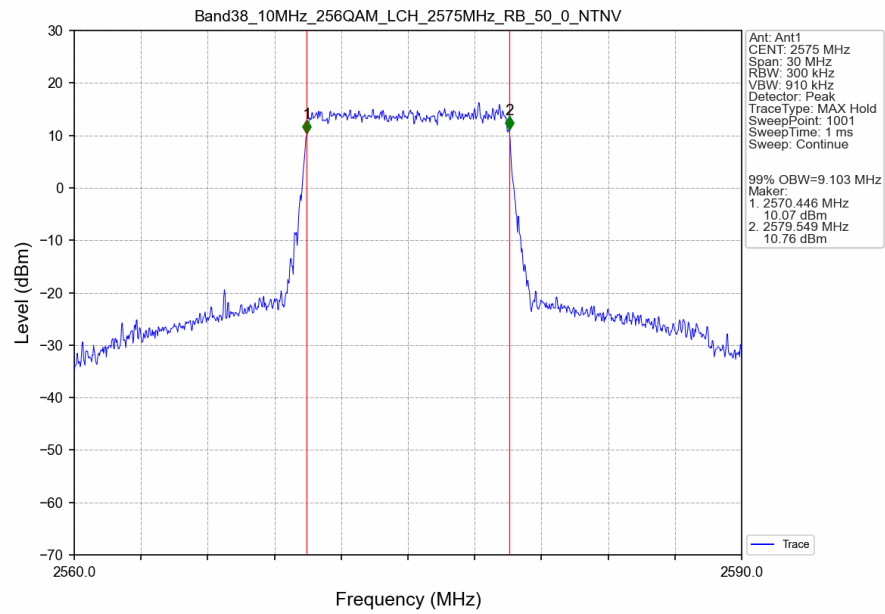
Band38\_10MHz\_64QAM\_MCH\_2595MHz\_RB\_50\_0\_NTNV



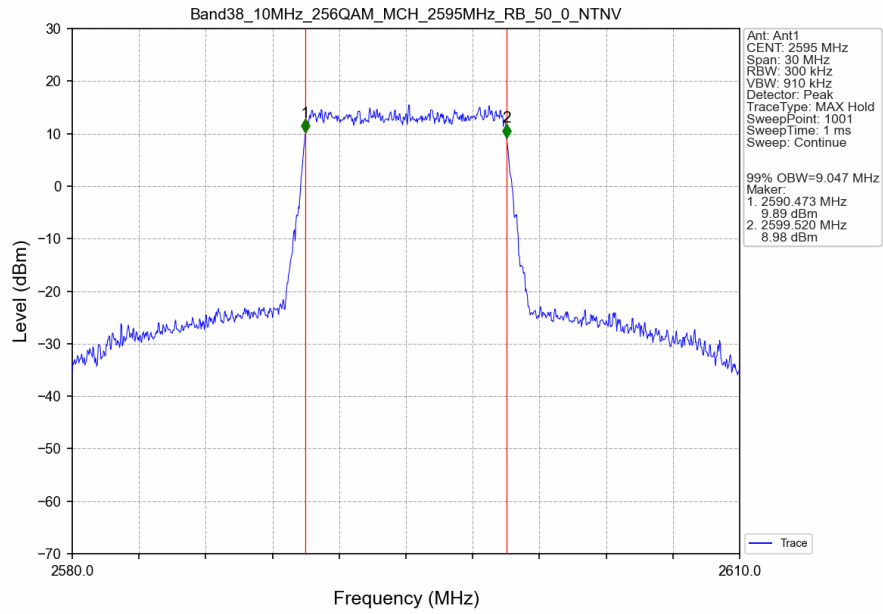
# Band38 10MHz 64QAM HCH 2615MHz RB 50 0 NTNV



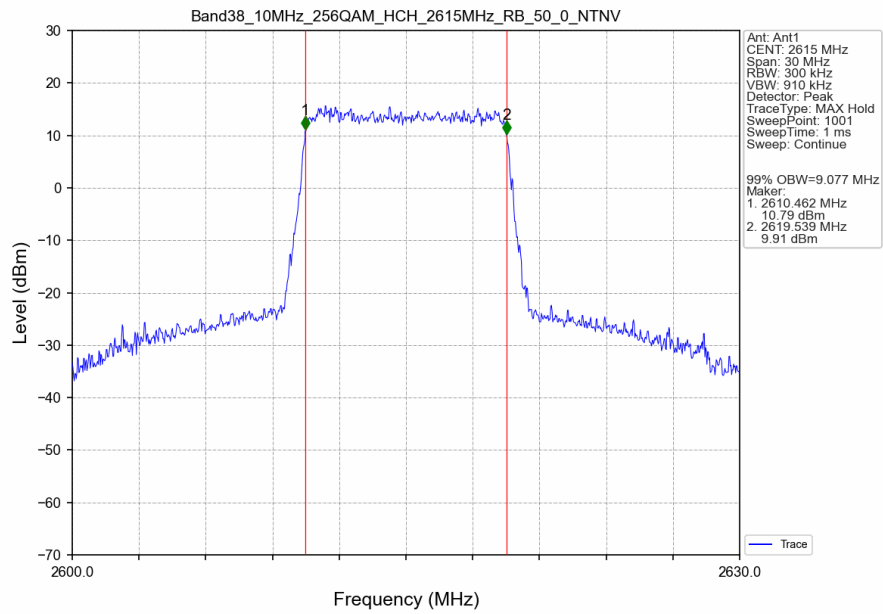
# Band38 10MHz 256QAM LCH 2575MHz RB 50 0 NTNV



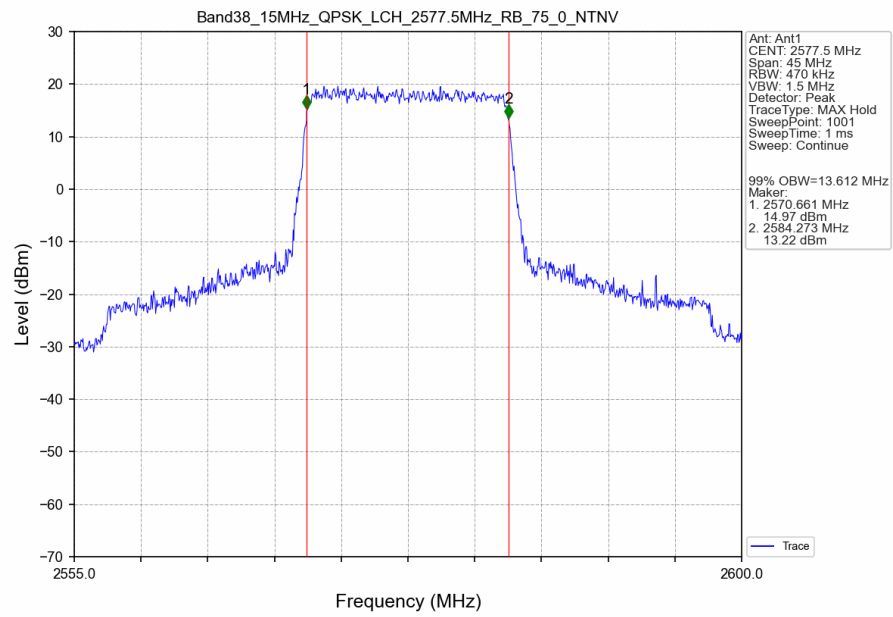
# Band38\_10MHz\_256QAM\_MCH\_2595MHz\_RB\_50\_0\_NTNV



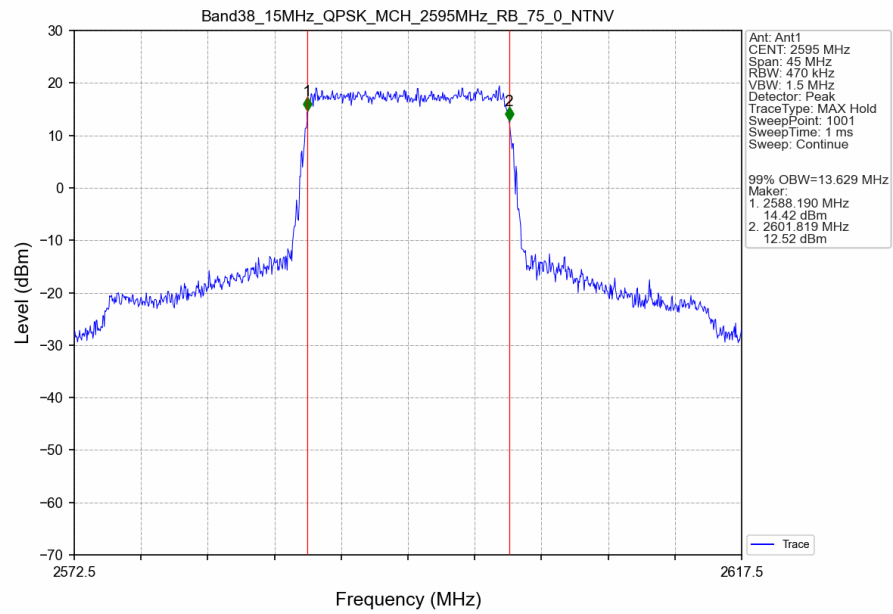
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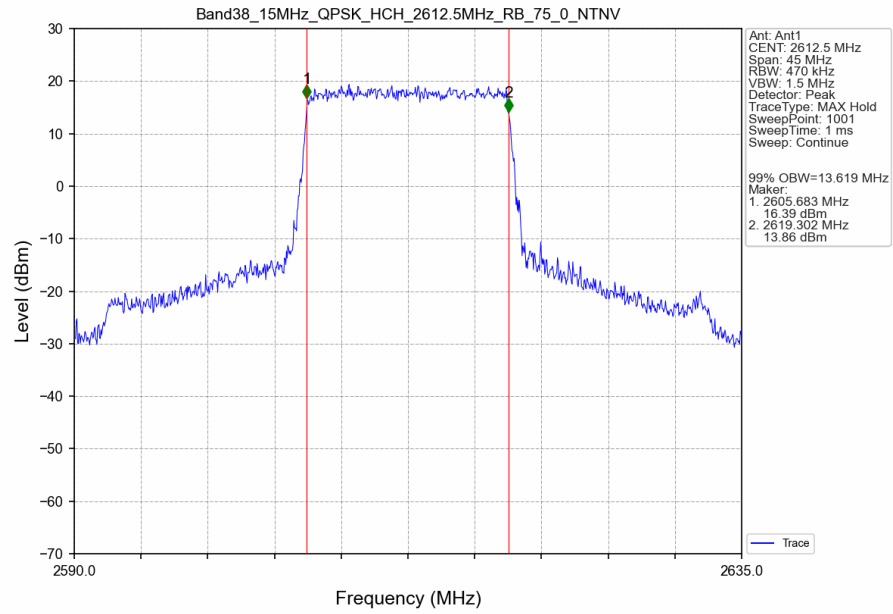
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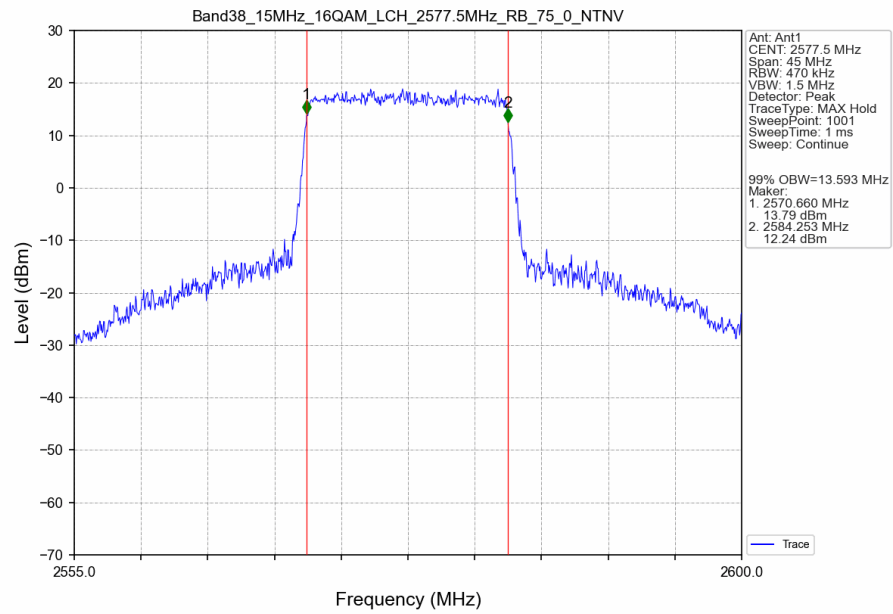
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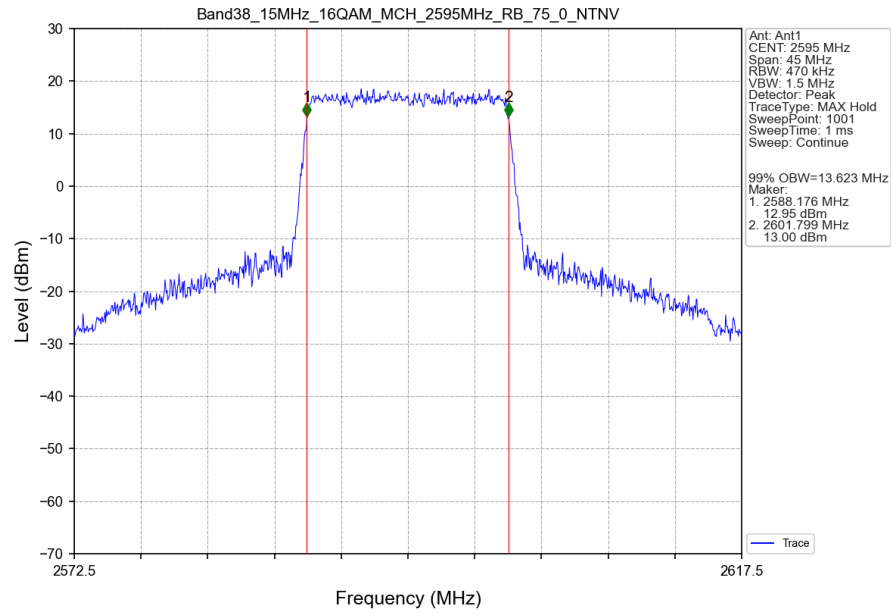
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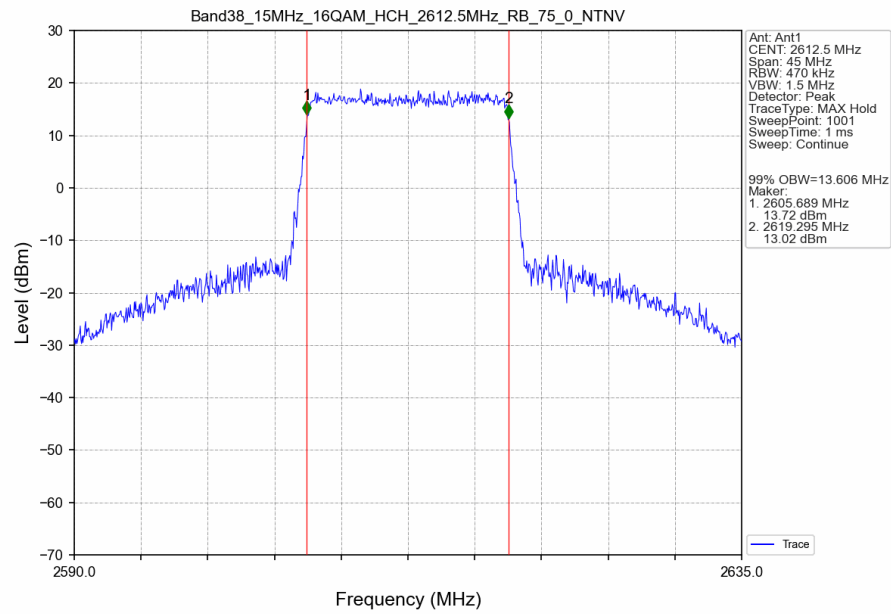
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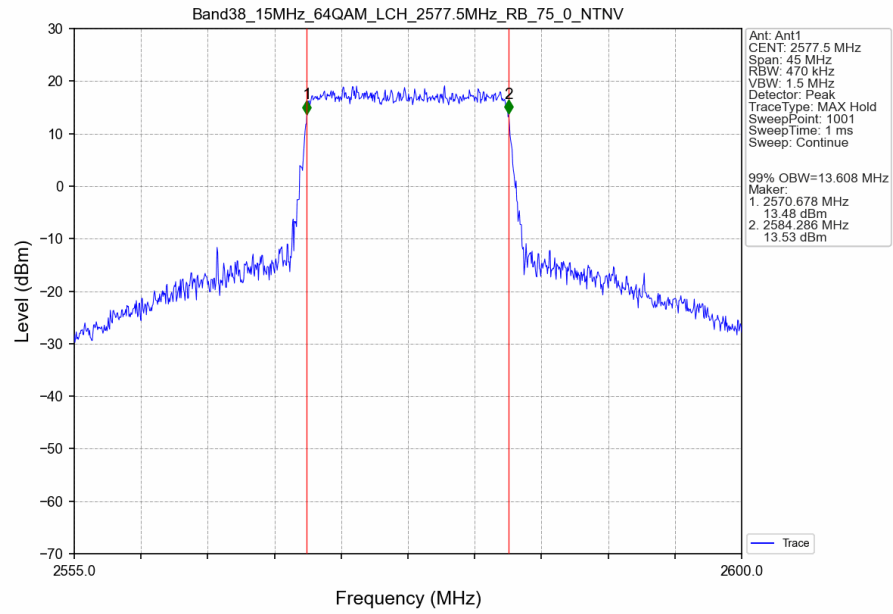
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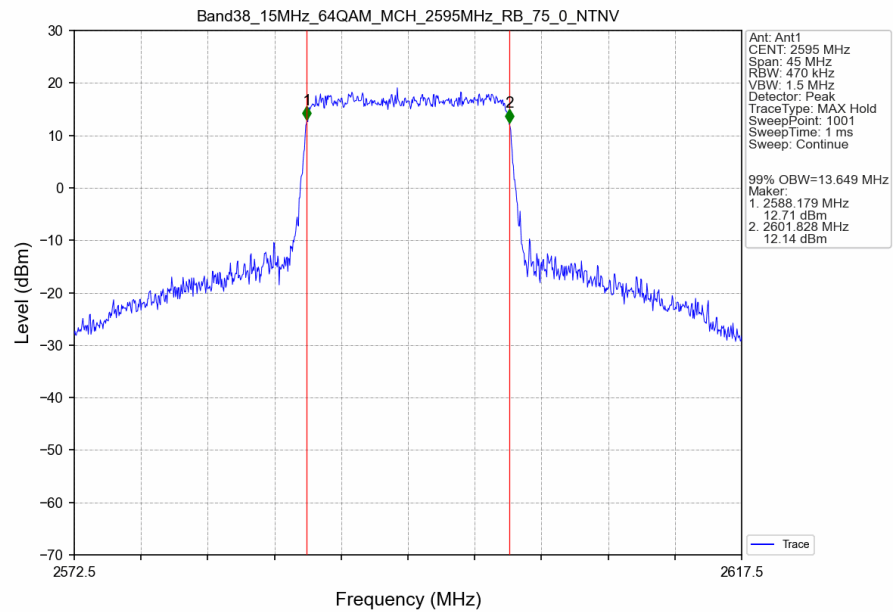
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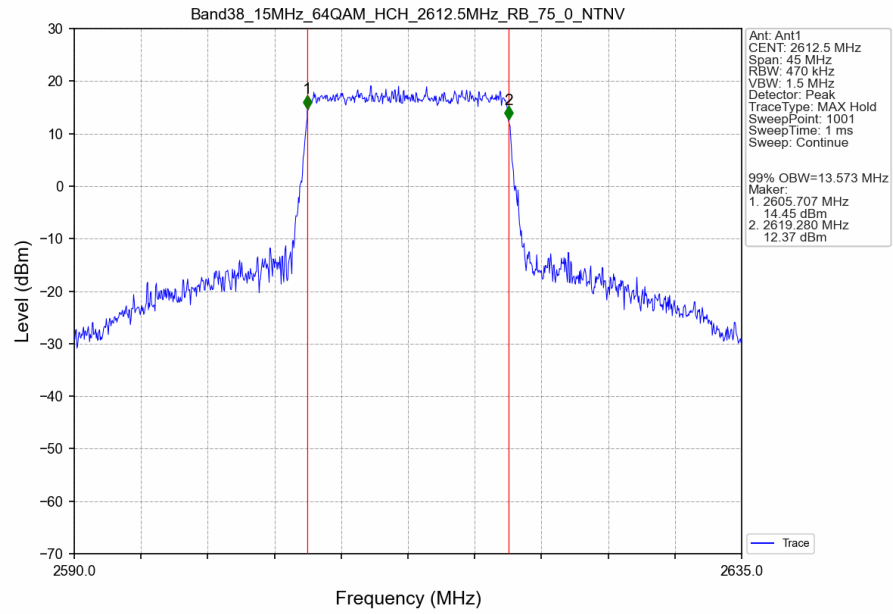
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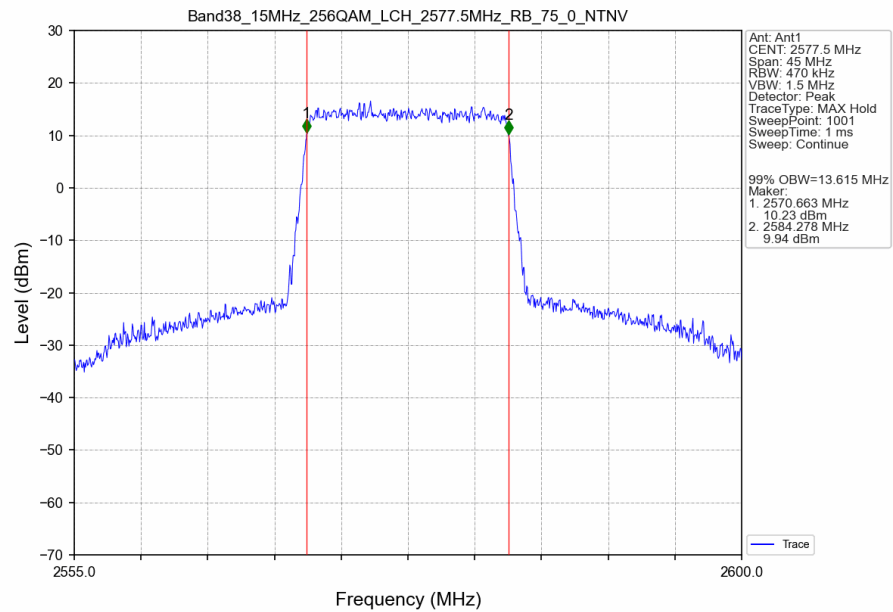
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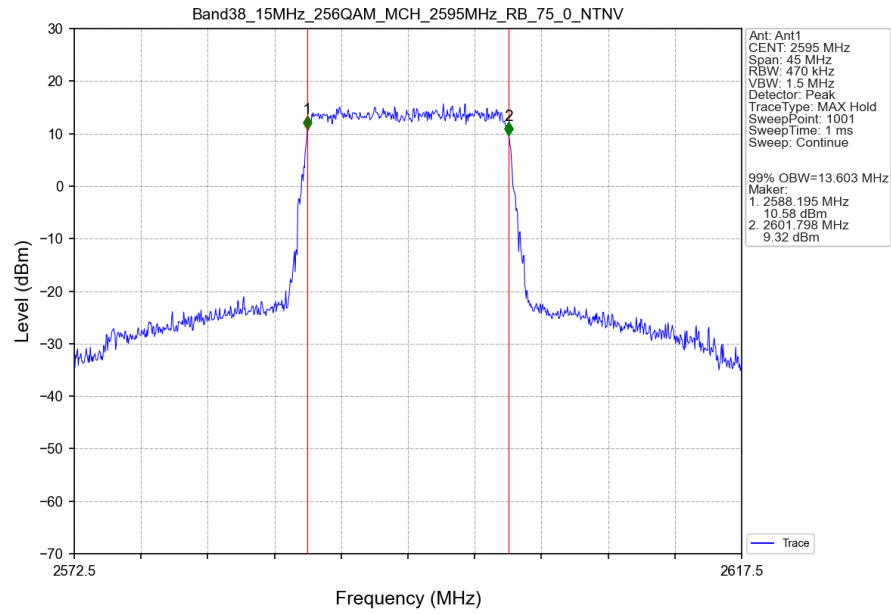
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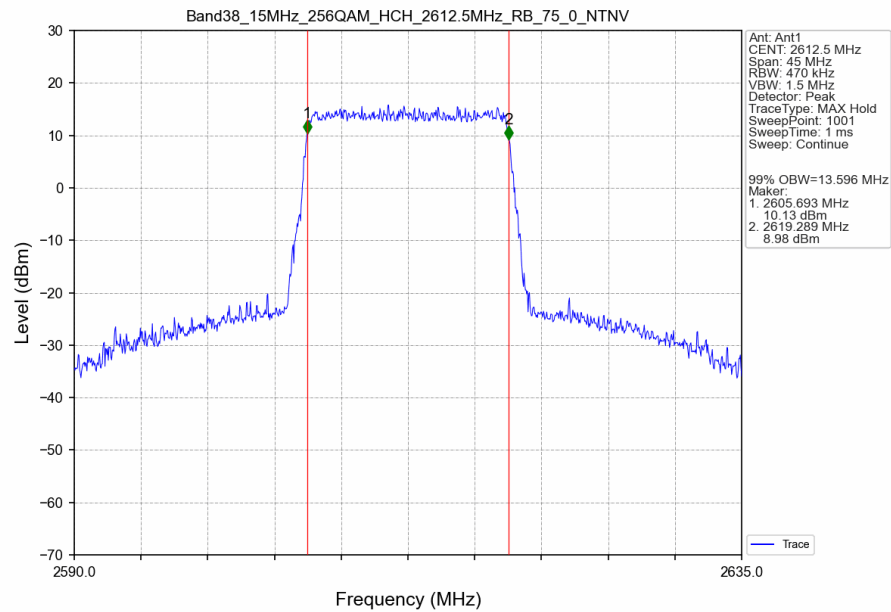
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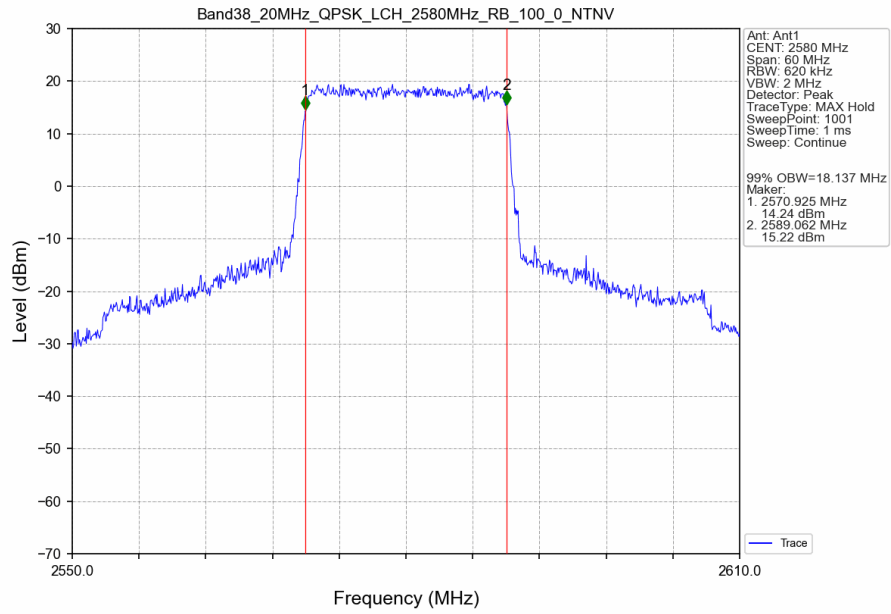
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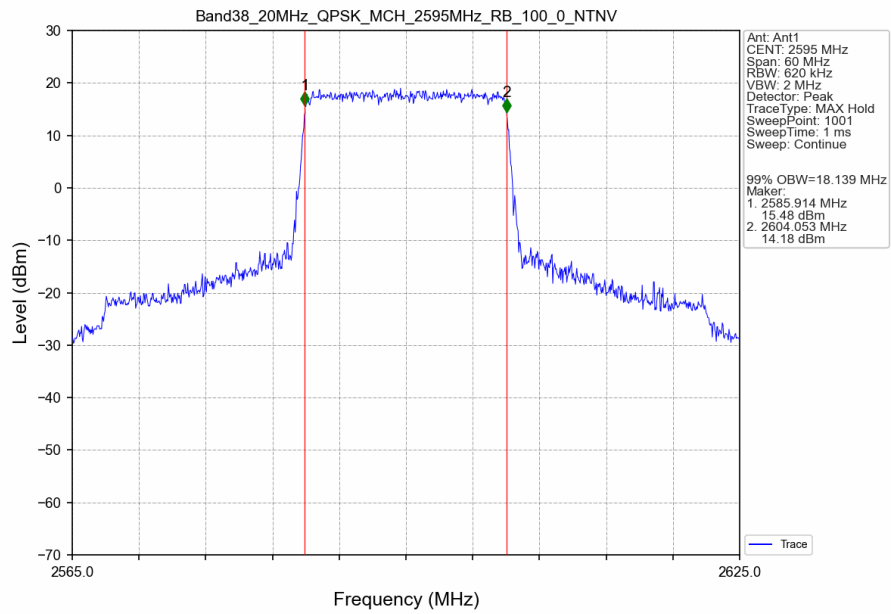
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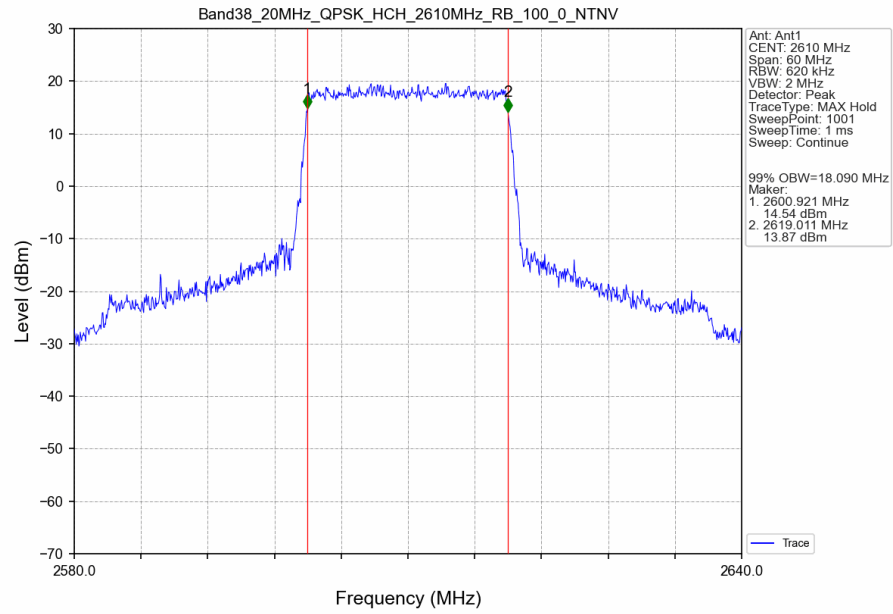
### Band38 20MHz QPSK LCH 2580MHz RB 100 0 NTV



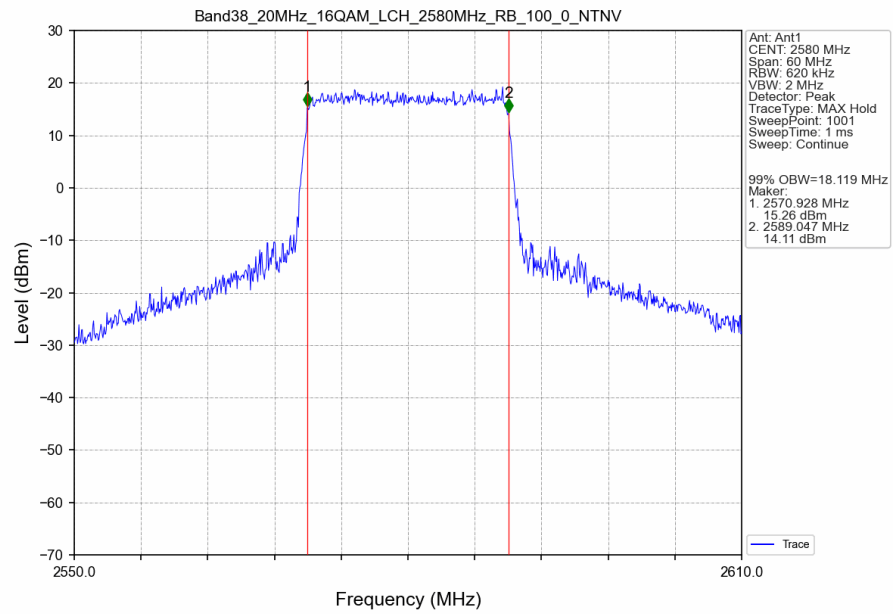
### Band38 20MHz QPSK MCH 2595MHz RB 100 0 NTV



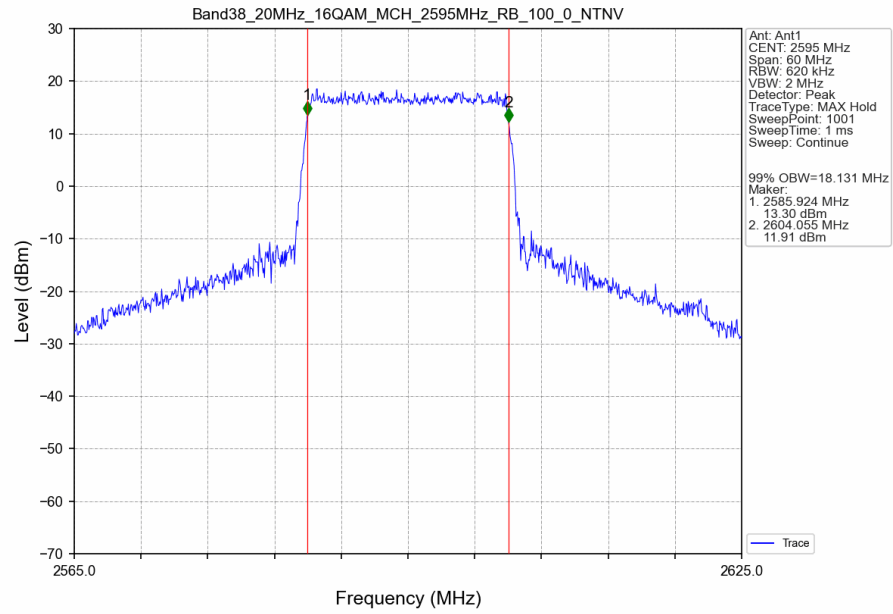
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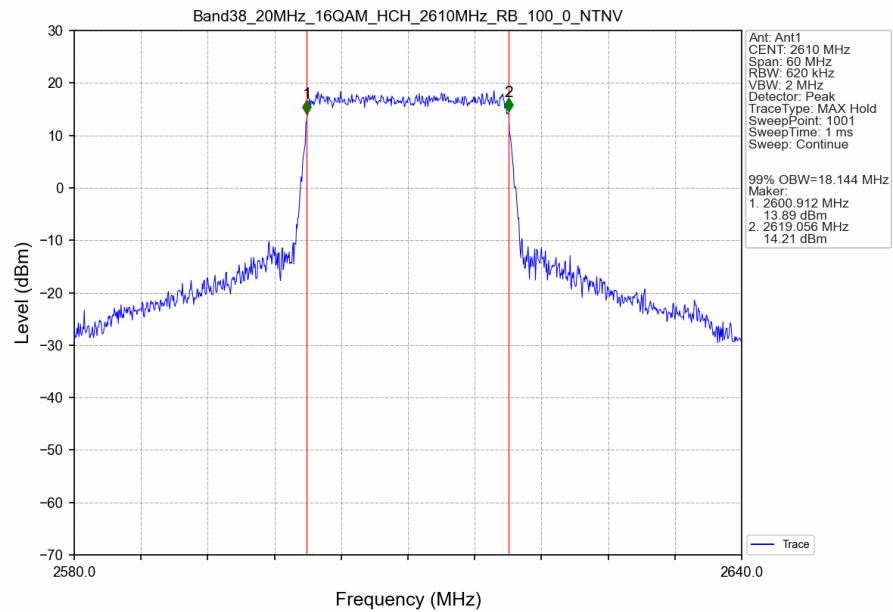
### Band38 20MHz 16QAM LCH 2580MHz RB 100 0 NTN



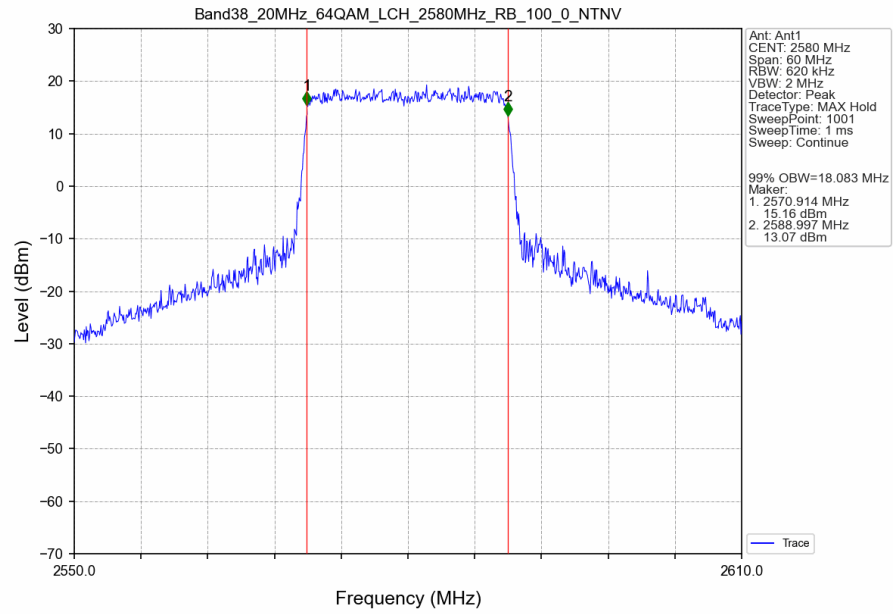
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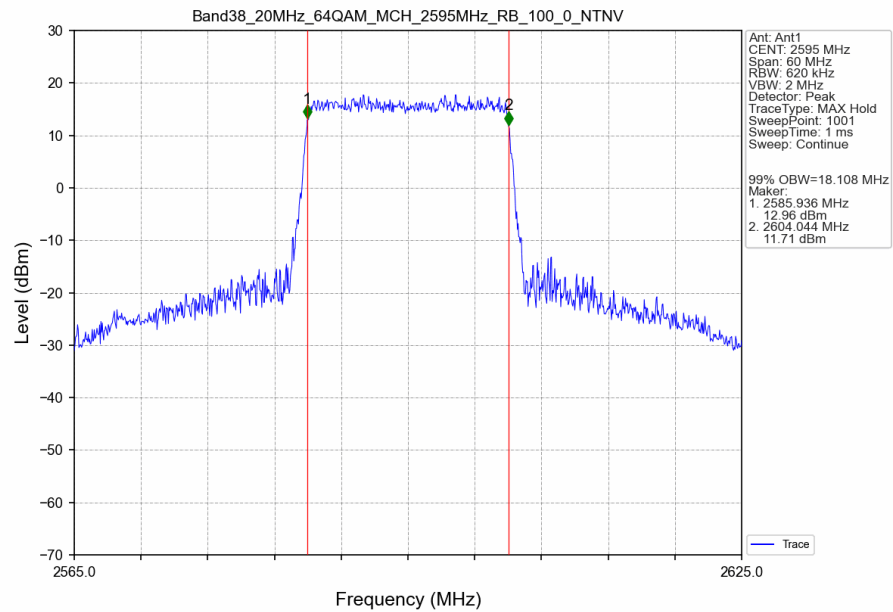
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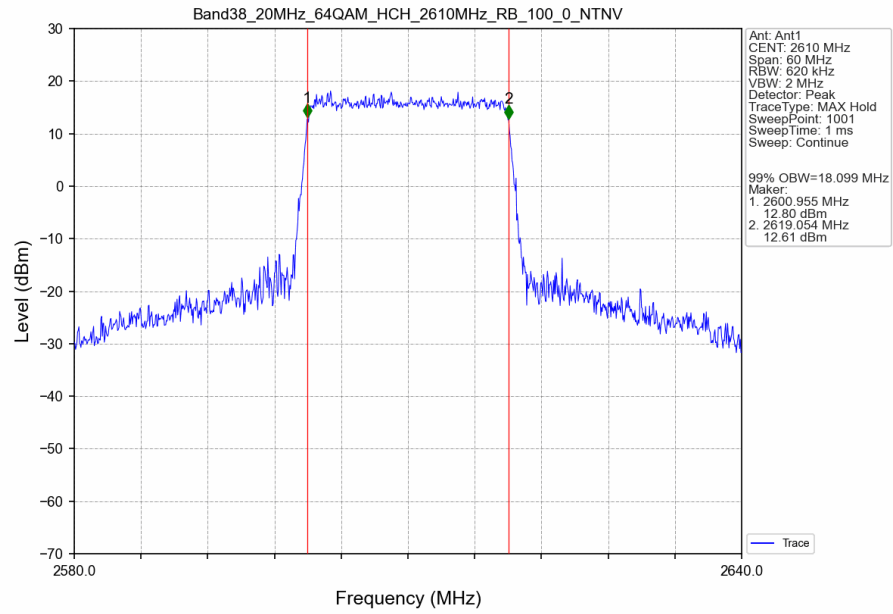
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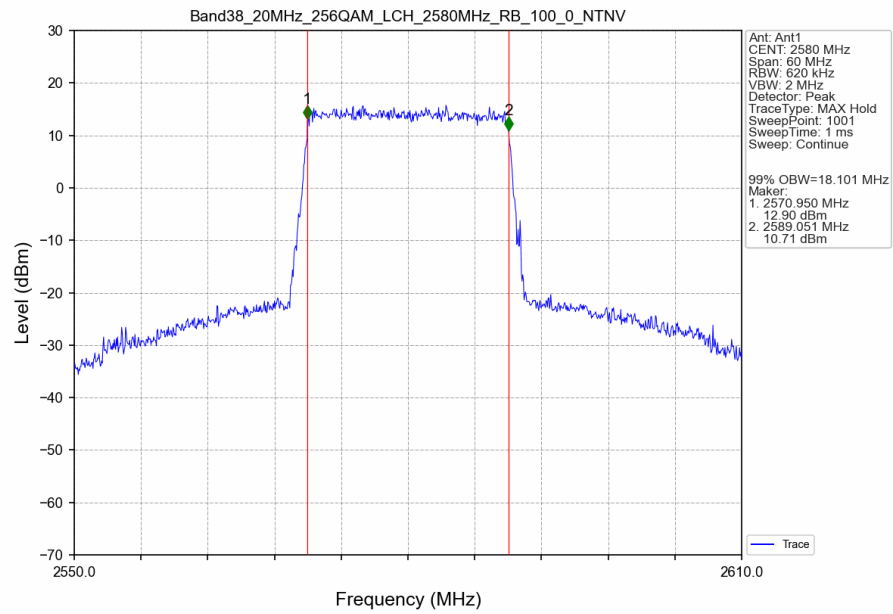
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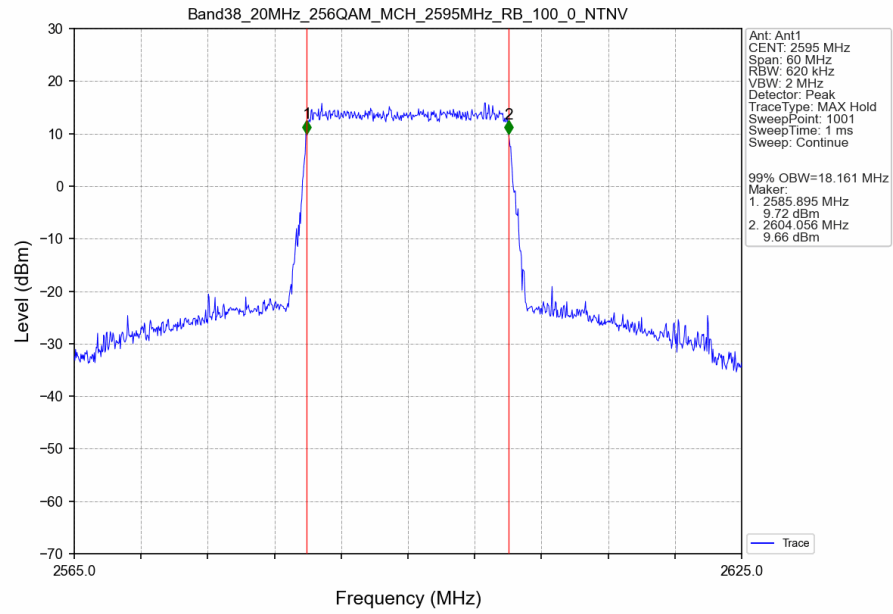
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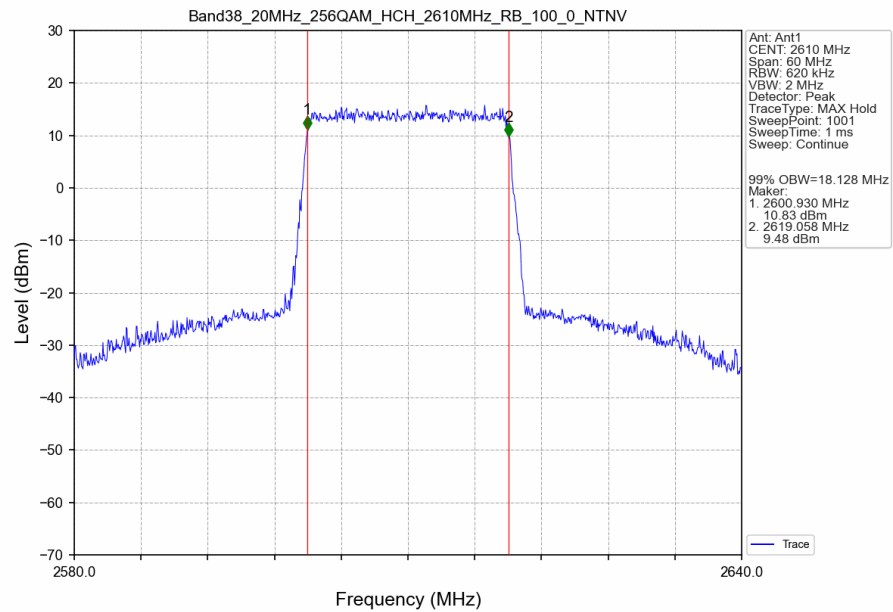
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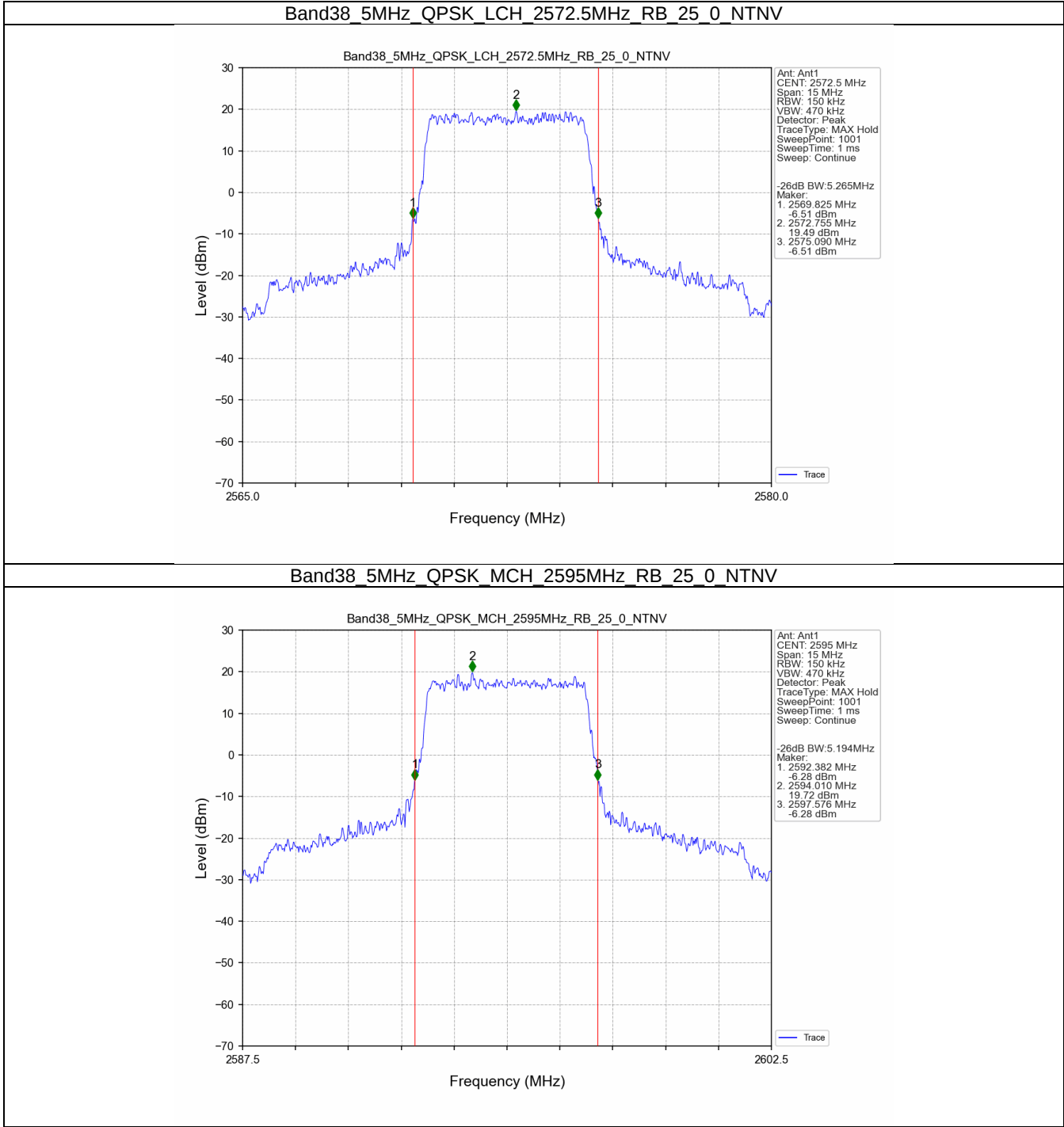
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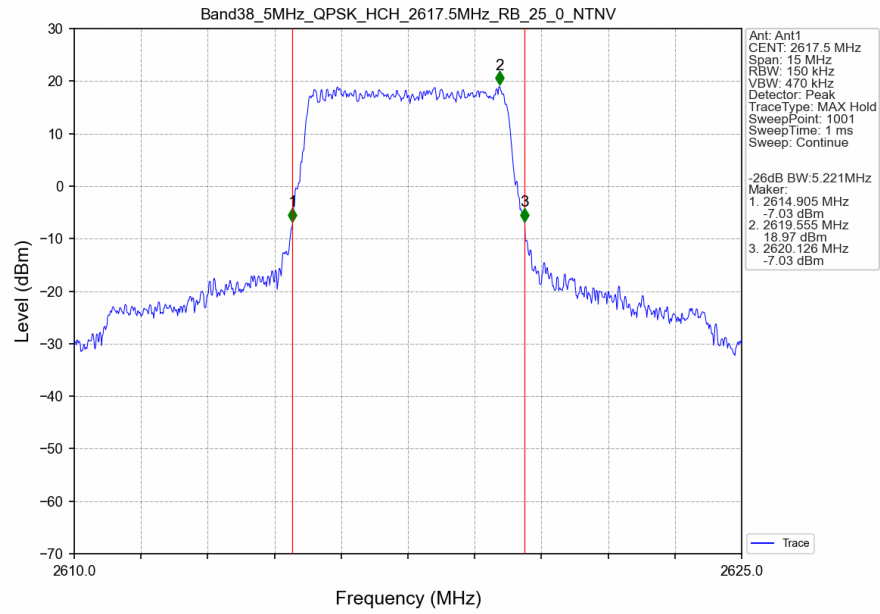
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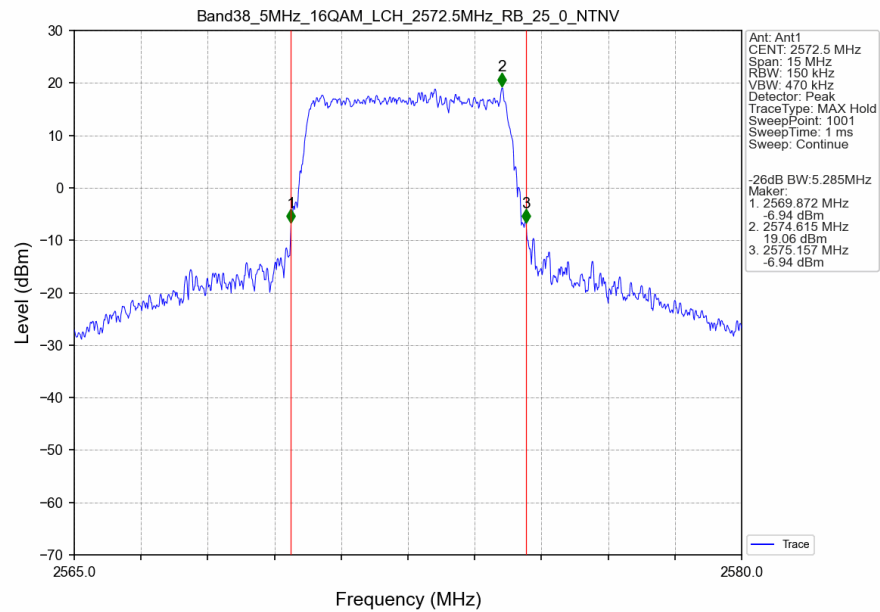
3.2.2 Band38\_XDB



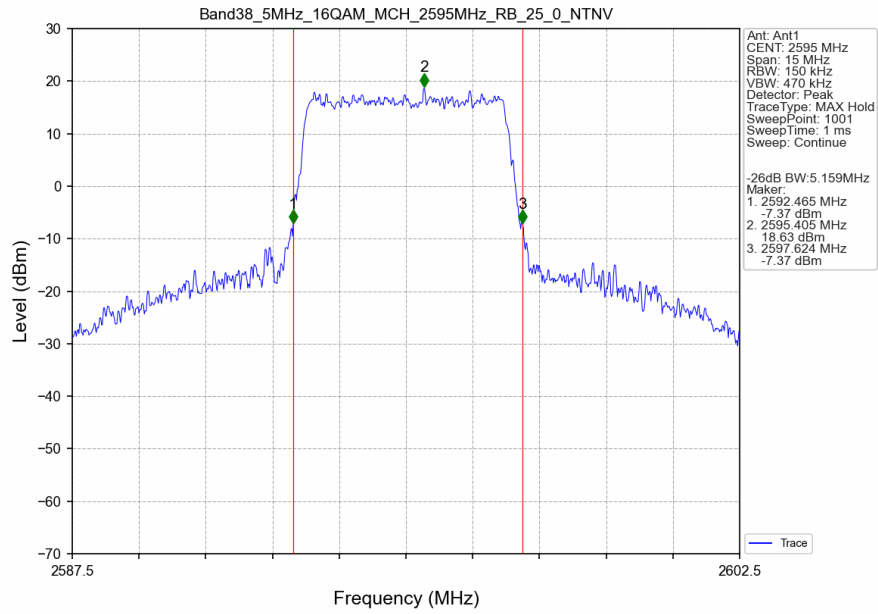
# Band38 5MHz QPSK HCH 2617.5MHz RB 25 0 NTN



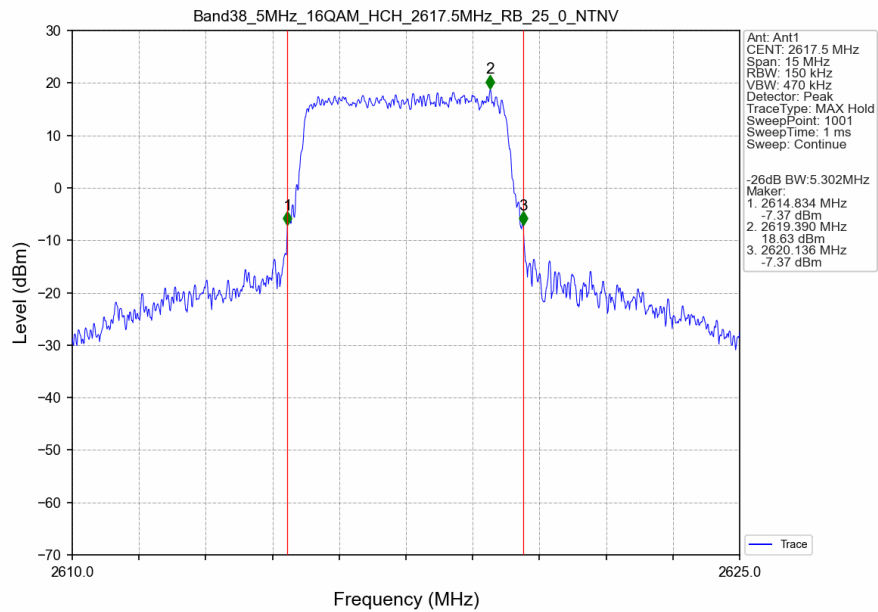
# Band38 5MHz 16QAM LCH 2572.5MHz RB 25 0 NTN



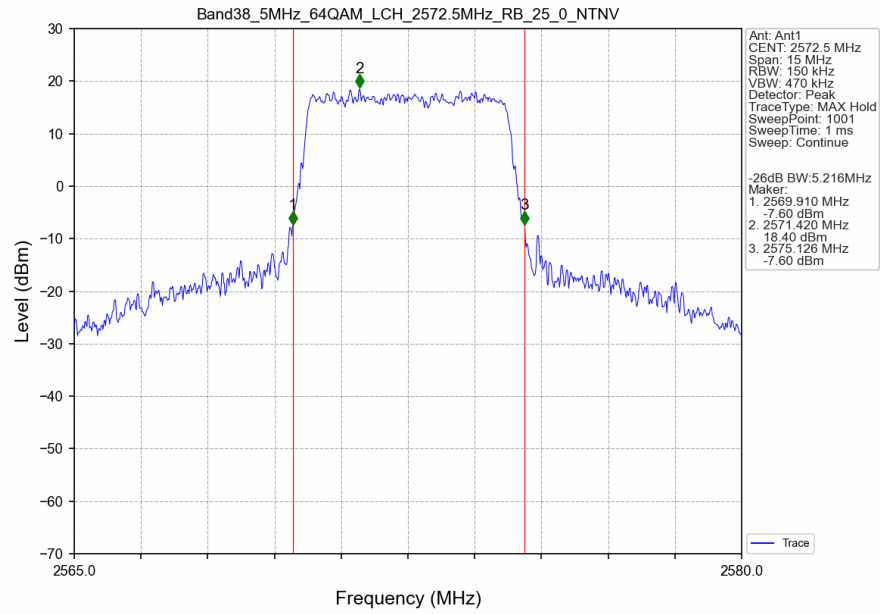
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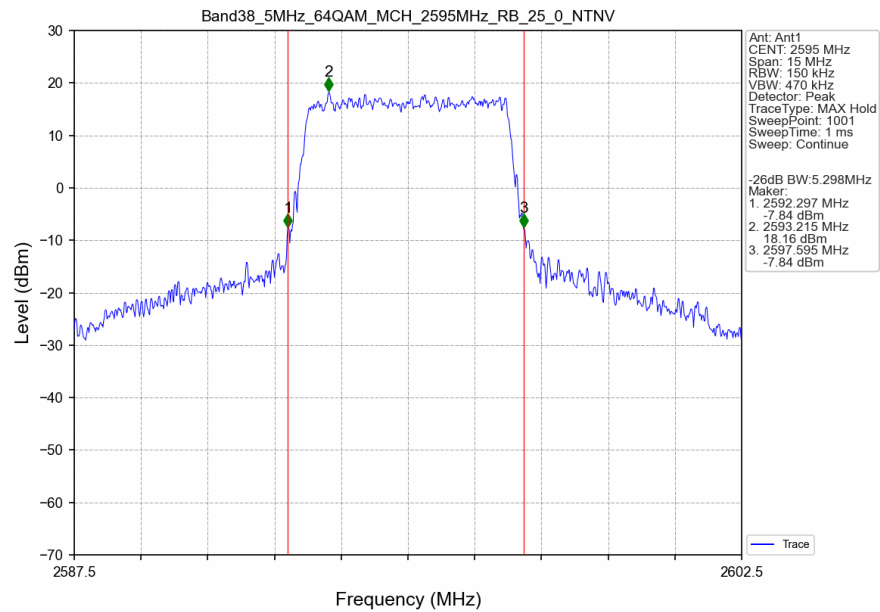
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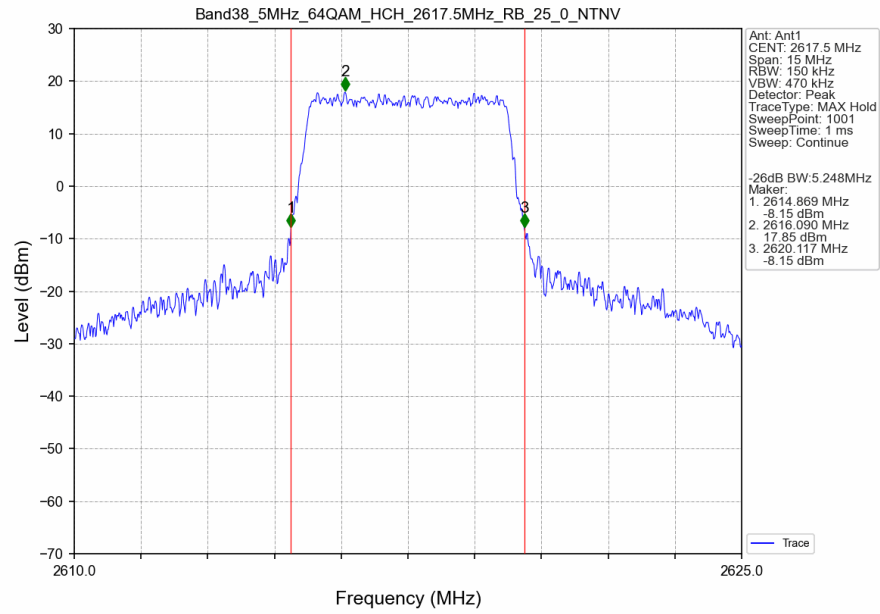
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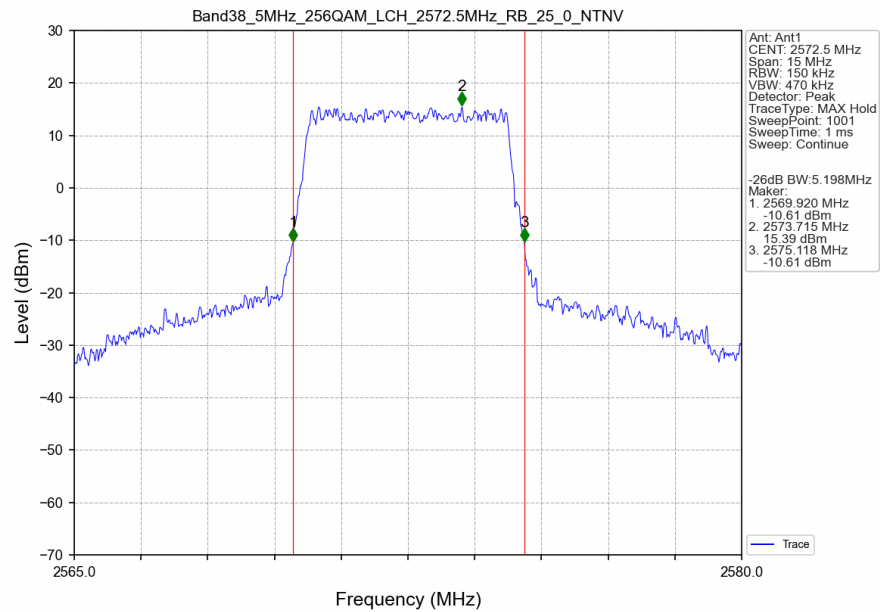
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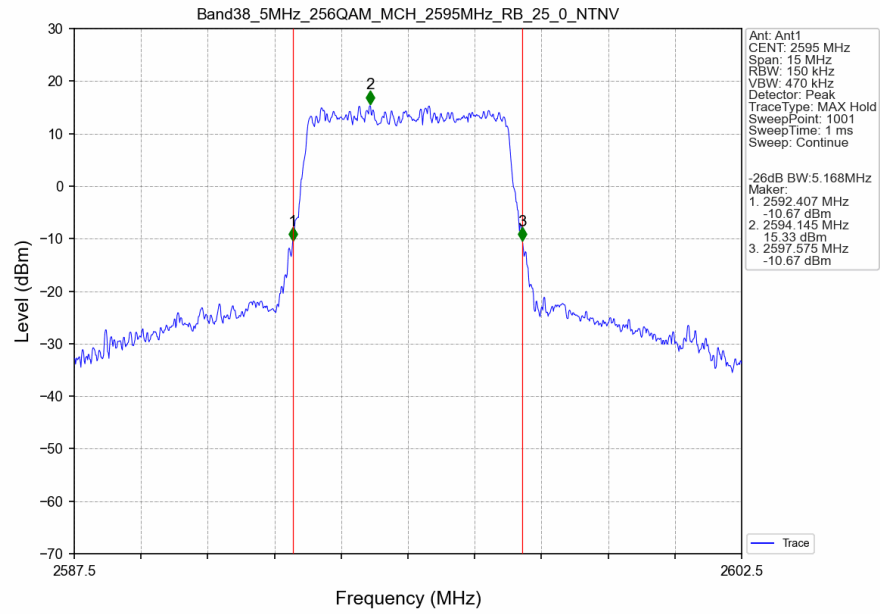
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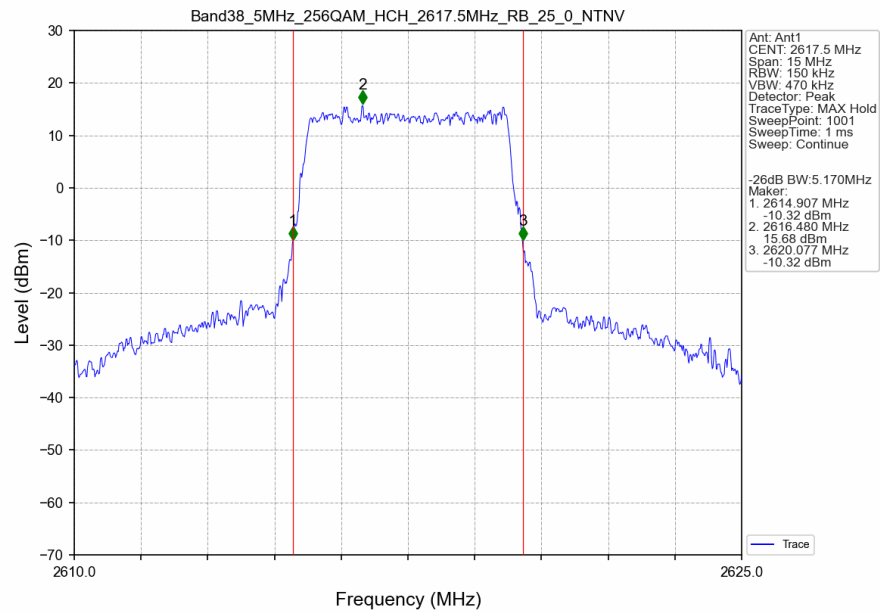
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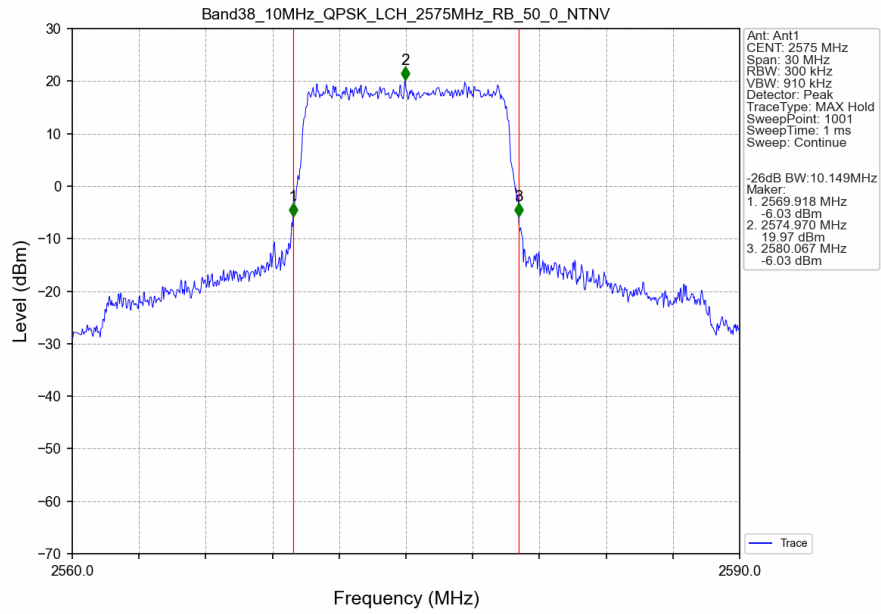
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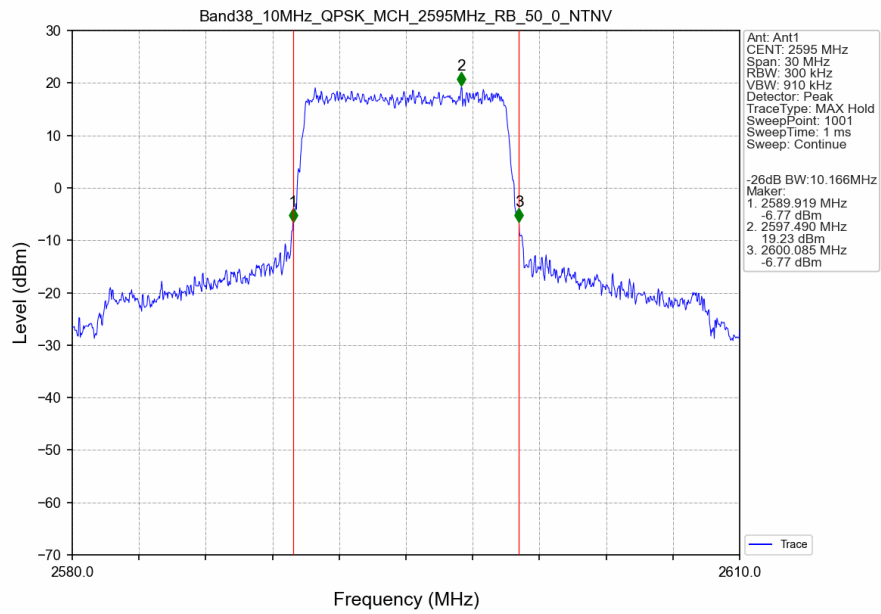
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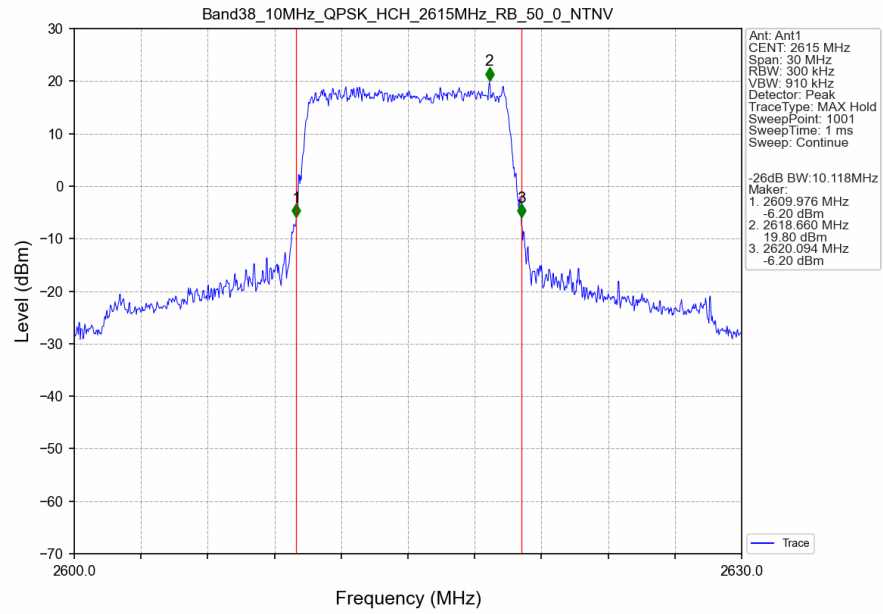
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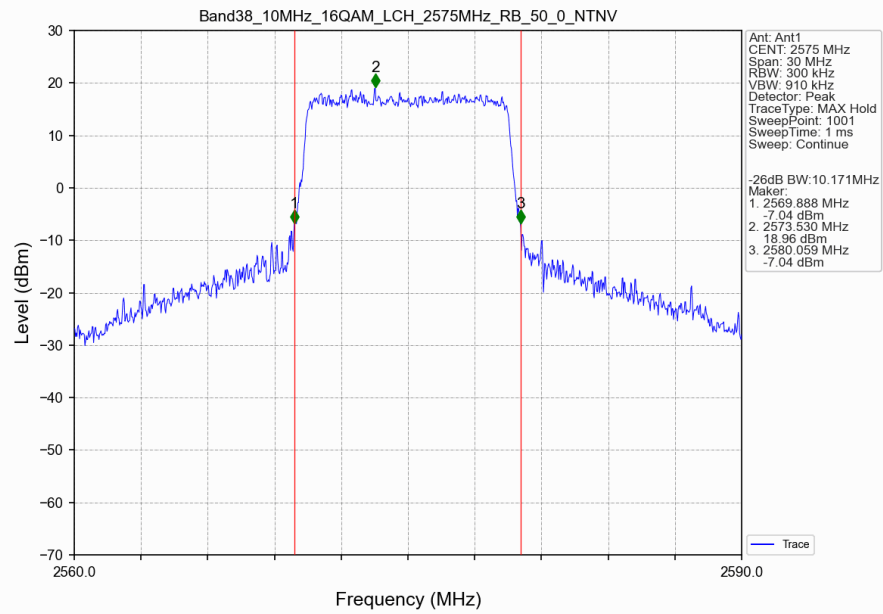
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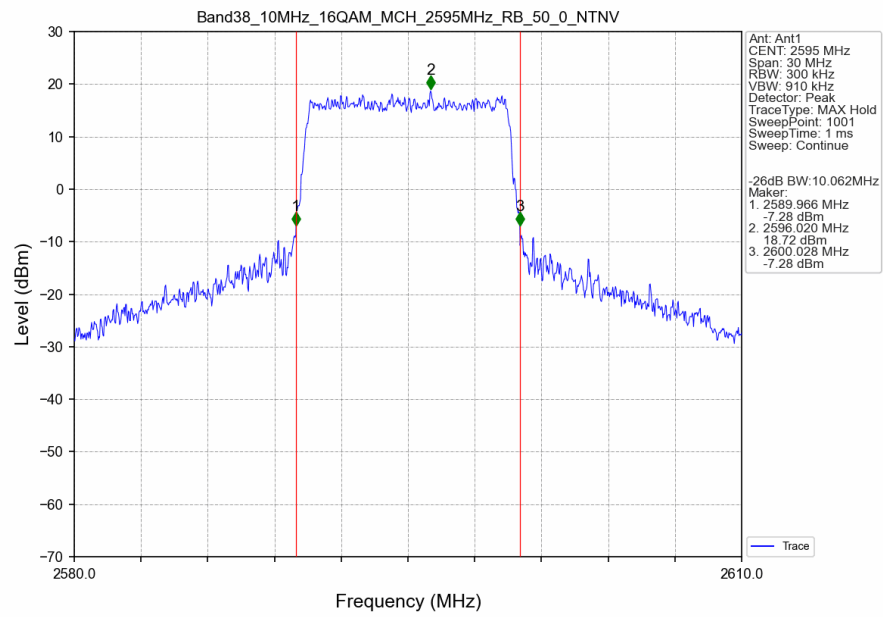
# Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_50\_0\_NTNV



# Band38\_10MHz\_16QAM\_LCH\_2575MHz\_RB\_50\_0\_NTNV



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



# Band38 10MHz 16QAM HCH 2615MHz RB 50 0 NTN

