

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 B5\_1.4MHz\_ERP (ANT13)

| Band: 5 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                       |            |           |         |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                               | 824.7           | 1             | 0      | 23.28                 | -3.91      | 17.22     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 23.38                 | -3.91      | 17.32     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 23.28                 | -3.91      | 17.22     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 23.30                 | -3.91      | 17.24     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 23.42                 | -3.91      | 17.36     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 23.31                 | -3.91      | 17.25     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 22.37                 | -3.91      | 16.31     | <=38.45 | Pass    |
|                                    | 836.5           | 1             | 0      | 23.37                 | -3.91      | 17.31     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 23.50                 | -3.91      | 17.44     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 23.43                 | -3.91      | 17.37     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 23.52                 | -3.91      | 17.46     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 23.52                 | -3.91      | 17.46     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 23.46                 | -3.91      | 17.40     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 22.45                 | -3.91      | 16.39     | <=38.45 | Pass    |
|                                    | 848.3           | 1             | 0      | 23.54                 | -3.91      | 17.48     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 23.49                 | -3.91      | 17.43     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 23.48                 | -3.91      | 17.42     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 23.56                 | -3.91      | 17.50     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 23.56                 | -3.91      | 17.50     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 23.60                 | -3.91      | 17.54     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 22.66                 | -3.91      | 16.60     | <=38.45 | Pass    |
| 16QAM                              | 824.7           | 1             | 0      | 22.58                 | -3.91      | 16.52     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 22.81                 | -3.91      | 16.75     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 22.70                 | -3.91      | 16.64     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 22.44                 | -3.91      | 16.38     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 22.42                 | -3.91      | 16.36     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 22.44                 | -3.91      | 16.38     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 21.45                 | -3.91      | 15.39     | <=38.45 | Pass    |
|                                    | 836.5           | 1             | 0      | 22.82                 | -3.91      | 16.76     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 22.65                 | -3.91      | 16.59     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 22.72                 | -3.91      | 16.66     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 22.56                 | -3.91      | 16.50     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 22.67                 | -3.91      | 16.61     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 22.60                 | -3.91      | 16.54     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 21.58                 | -3.91      | 15.52     | <=38.45 | Pass    |
|                                    | 848.3           | 1             | 0      | 22.89                 | -3.91      | 16.83     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 23.01                 | -3.91      | 16.95     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 22.96                 | -3.91      | 16.90     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 22.65                 | -3.91      | 16.59     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 22.68                 | -3.91      | 16.62     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 22.69                 | -3.91      | 16.63     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 21.65                 | -3.91      | 15.59     | <=38.45 | Pass    |
| 64QAM                              | 824.7           | 1             | 0      | 22.58                 | -3.91      | 16.52     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 22.37                 | -3.91      | 16.31     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 22.51                 | -3.91      | 16.45     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 22.38                 | -3.91      | 16.32     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 22.42                 | -3.91      | 16.36     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 22.38                 | -3.91      | 16.32     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 21.34                 | -3.91      | 15.28     | <=38.45 | Pass    |

|        |       |   |   |       |       |       |         |      |
|--------|-------|---|---|-------|-------|-------|---------|------|
|        | 836.5 | 1 | 0 | 22.63 | -3.91 | 16.57 | <=38.45 | Pass |
|        |       |   | 2 | 22.64 | -3.91 | 16.58 | <=38.45 | Pass |
|        |       |   | 5 | 22.59 | -3.91 | 16.53 | <=38.45 | Pass |
|        |       | 3 | 0 | 22.54 | -3.91 | 16.48 | <=38.45 | Pass |
|        |       |   | 2 | 22.50 | -3.91 | 16.44 | <=38.45 | Pass |
|        |       |   | 3 | 22.45 | -3.91 | 16.39 | <=38.45 | Pass |
|        |       | 6 | 0 | 21.45 | -3.91 | 15.39 | <=38.45 | Pass |
|        | 848.3 | 1 | 0 | 22.55 | -3.91 | 16.49 | <=38.45 | Pass |
|        |       |   | 2 | 22.61 | -3.91 | 16.55 | <=38.45 | Pass |
|        |       |   | 5 | 22.58 | -3.91 | 16.52 | <=38.45 | Pass |
|        |       | 3 | 0 | 22.63 | -3.91 | 16.57 | <=38.45 | Pass |
|        |       |   | 2 | 22.55 | -3.91 | 16.49 | <=38.45 | Pass |
|        |       |   | 3 | 22.70 | -3.91 | 16.64 | <=38.45 | Pass |
|        |       | 6 | 0 | 21.66 | -3.91 | 15.60 | <=38.45 | Pass |
| 256QAM | 824.7 | 1 | 0 | 18.38 | -3.91 | 12.32 | <=38.45 | Pass |
|        |       |   | 2 | 18.54 | -3.91 | 12.48 | <=38.45 | Pass |
|        |       |   | 5 | 18.46 | -3.91 | 12.40 | <=38.45 | Pass |
|        |       | 3 | 0 | 18.41 | -3.91 | 12.35 | <=38.45 | Pass |
|        |       |   | 2 | 18.45 | -3.91 | 12.39 | <=38.45 | Pass |
|        |       |   | 3 | 18.41 | -3.91 | 12.35 | <=38.45 | Pass |
|        |       | 6 | 0 | 18.37 | -3.91 | 12.31 | <=38.45 | Pass |
|        | 836.5 | 1 | 0 | 18.62 | -3.91 | 12.56 | <=38.45 | Pass |
|        |       |   | 2 | 18.58 | -3.91 | 12.52 | <=38.45 | Pass |
|        |       |   | 5 | 18.50 | -3.91 | 12.44 | <=38.45 | Pass |
|        |       | 3 | 0 | 18.51 | -3.91 | 12.45 | <=38.45 | Pass |
|        |       |   | 2 | 18.61 | -3.91 | 12.55 | <=38.45 | Pass |
|        |       |   | 3 | 18.69 | -3.91 | 12.63 | <=38.45 | Pass |
|        |       | 6 | 0 | 18.46 | -3.91 | 12.40 | <=38.45 | Pass |
|        | 848.3 | 1 | 0 | 18.70 | -3.91 | 12.64 | <=38.45 | Pass |
|        |       |   | 2 | 18.89 | -3.91 | 12.83 | <=38.45 | Pass |
|        |       |   | 5 | 18.58 | -3.91 | 12.52 | <=38.45 | Pass |
|        |       | 3 | 0 | 18.64 | -3.91 | 12.58 | <=38.45 | Pass |
|        |       |   | 2 | 18.70 | -3.91 | 12.64 | <=38.45 | Pass |
|        |       |   | 3 | 18.56 | -3.91 | 12.50 | <=38.45 | Pass |
|        |       | 6 | 0 | 18.54 | -3.91 | 12.48 | <=38.45 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.2 B5\_3MHz\_ERP (ANT13)

| Band: 5 / Bandwidth: 3MHz / NTNV |                 |               |        |                       |            |           |         |         |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                  |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                             | 825.5           | 1             | 0      | 23.34                 | -3.91      | 17.28     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 23.36                 | -3.91      | 17.30     | <=38.45 | Pass    |
|                                  |                 |               | 14     | 23.25                 | -3.91      | 17.19     | <=38.45 | Pass    |
|                                  |                 | 8             | 0      | 22.40                 | -3.91      | 16.34     | <=38.45 | Pass    |
|                                  |                 |               | 4      | 22.39                 | -3.91      | 16.33     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 22.35                 | -3.91      | 16.29     | <=38.45 | Pass    |
|                                  |                 | 15            | 0      | 22.42                 | -3.91      | 16.36     | <=38.45 | Pass    |
|                                  | 836.5           | 1             | 0      | 23.36                 | -3.91      | 17.30     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 23.46                 | -3.91      | 17.40     | <=38.45 | Pass    |
|                                  |                 |               | 14     | 23.41                 | -3.91      | 17.35     | <=38.45 | Pass    |
|                                  |                 | 8             | 0      | 22.49                 | -3.91      | 16.43     | <=38.45 | Pass    |
|                                  |                 |               | 4      | 22.64                 | -3.91      | 16.58     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 22.62                 | -3.91      | 16.56     | <=38.45 | Pass    |
|                                  |                 | 15            | 0      | 22.52                 | -3.91      | 16.46     | <=38.45 | Pass    |
|                                  | 847.5           | 1             | 0      | 23.47                 | -3.91      | 17.41     | <=38.45 | Pass    |

|        |       |    |    |       |       |       |         |      |
|--------|-------|----|----|-------|-------|-------|---------|------|
|        |       | 8  | 7  | 23.51 | -3.91 | 17.45 | <=38.45 | Pass |
|        |       |    | 14 | 23.42 | -3.91 | 17.36 | <=38.45 | Pass |
|        |       |    | 0  | 22.67 | -3.91 | 16.61 | <=38.45 | Pass |
|        |       |    | 4  | 22.66 | -3.91 | 16.60 | <=38.45 | Pass |
|        |       |    | 7  | 22.66 | -3.91 | 16.60 | <=38.45 | Pass |
|        |       | 15 | 0  | 22.68 | -3.91 | 16.62 | <=38.45 | Pass |
| 16QAM  | 825.5 | 1  | 0  | 22.63 | -3.91 | 16.57 | <=38.45 | Pass |
|        |       |    | 7  | 22.83 | -3.91 | 16.77 | <=38.45 | Pass |
|        |       |    | 14 | 22.61 | -3.91 | 16.55 | <=38.45 | Pass |
|        |       | 8  | 0  | 21.46 | -3.91 | 15.40 | <=38.45 | Pass |
|        |       |    | 4  | 21.49 | -3.91 | 15.43 | <=38.45 | Pass |
|        |       |    | 7  | 21.47 | -3.91 | 15.41 | <=38.45 | Pass |
|        |       | 15 | 0  | 21.46 | -3.91 | 15.40 | <=38.45 | Pass |
|        | 836.5 | 1  | 0  | 22.81 | -3.91 | 16.75 | <=38.45 | Pass |
|        |       |    | 7  | 23.12 | -3.91 | 17.06 | <=38.45 | Pass |
|        |       |    | 14 | 22.81 | -3.91 | 16.75 | <=38.45 | Pass |
|        |       | 8  | 0  | 21.54 | -3.91 | 15.48 | <=38.45 | Pass |
|        |       |    | 4  | 21.62 | -3.91 | 15.56 | <=38.45 | Pass |
|        |       |    | 7  | 21.64 | -3.91 | 15.58 | <=38.45 | Pass |
|        |       | 15 | 0  | 21.53 | -3.91 | 15.47 | <=38.45 | Pass |
|        | 847.5 | 1  | 0  | 22.99 | -3.91 | 16.93 | <=38.45 | Pass |
|        |       |    | 7  | 22.71 | -3.91 | 16.65 | <=38.45 | Pass |
|        |       |    | 14 | 22.91 | -3.91 | 16.85 | <=38.45 | Pass |
|        |       | 8  | 0  | 21.73 | -3.91 | 15.67 | <=38.45 | Pass |
|        |       |    | 4  | 21.78 | -3.91 | 15.72 | <=38.45 | Pass |
|        |       |    | 7  | 21.71 | -3.91 | 15.65 | <=38.45 | Pass |
|        |       | 15 | 0  | 21.61 | -3.91 | 15.55 | <=38.45 | Pass |
| 64QAM  | 825.5 | 1  | 0  | 22.52 | -3.91 | 16.46 | <=38.45 | Pass |
|        |       |    | 7  | 22.60 | -3.91 | 16.54 | <=38.45 | Pass |
|        |       |    | 14 | 22.33 | -3.91 | 16.27 | <=38.45 | Pass |
|        |       | 8  | 0  | 21.40 | -3.91 | 15.34 | <=38.45 | Pass |
|        |       |    | 4  | 21.39 | -3.91 | 15.33 | <=38.45 | Pass |
|        |       |    | 7  | 21.33 | -3.91 | 15.27 | <=38.45 | Pass |
|        |       | 15 | 0  | 21.36 | -3.91 | 15.30 | <=38.45 | Pass |
|        | 836.5 | 1  | 0  | 22.54 | -3.91 | 16.48 | <=38.45 | Pass |
|        |       |    | 7  | 22.59 | -3.91 | 16.53 | <=38.45 | Pass |
|        |       |    | 14 | 22.48 | -3.91 | 16.42 | <=38.45 | Pass |
|        |       | 8  | 0  | 21.46 | -3.91 | 15.40 | <=38.45 | Pass |
|        |       |    | 4  | 21.67 | -3.91 | 15.61 | <=38.45 | Pass |
|        |       |    | 7  | 21.63 | -3.91 | 15.57 | <=38.45 | Pass |
|        |       | 15 | 0  | 21.55 | -3.91 | 15.49 | <=38.45 | Pass |
|        | 847.5 | 1  | 0  | 22.70 | -3.91 | 16.64 | <=38.45 | Pass |
|        |       |    | 7  | 22.64 | -3.91 | 16.58 | <=38.45 | Pass |
|        |       |    | 14 | 22.60 | -3.91 | 16.54 | <=38.45 | Pass |
|        |       | 8  | 0  | 21.60 | -3.91 | 15.54 | <=38.45 | Pass |
|        |       |    | 4  | 21.69 | -3.91 | 15.63 | <=38.45 | Pass |
|        |       |    | 7  | 21.67 | -3.91 | 15.61 | <=38.45 | Pass |
|        |       | 15 | 0  | 21.69 | -3.91 | 15.63 | <=38.45 | Pass |
| 256QAM | 825.5 | 1  | 0  | 18.49 | -3.91 | 12.43 | <=38.45 | Pass |
|        |       |    | 7  | 18.61 | -3.91 | 12.55 | <=38.45 | Pass |
|        |       |    | 14 | 18.48 | -3.91 | 12.42 | <=38.45 | Pass |
|        |       | 8  | 0  | 18.41 | -3.91 | 12.35 | <=38.45 | Pass |
|        |       |    | 4  | 18.41 | -3.91 | 12.35 | <=38.45 | Pass |
|        |       |    | 7  | 18.38 | -3.91 | 12.32 | <=38.45 | Pass |
|        |       | 15 | 0  | 18.42 | -3.91 | 12.36 | <=38.45 | Pass |
|        | 836.5 | 1  | 0  | 18.45 | -3.91 | 12.39 | <=38.45 | Pass |
|        |       |    | 7  | 18.63 | -3.91 | 12.57 | <=38.45 | Pass |
|        |       |    | 14 | 18.78 | -3.91 | 12.72 | <=38.45 | Pass |
|        |       | 8  | 0  | 18.52 | -3.91 | 12.46 | <=38.45 | Pass |

|                                              |       |    |    |       |       |       |         |      |
|----------------------------------------------|-------|----|----|-------|-------|-------|---------|------|
|                                              |       | 15 | 4  | 18.56 | -3.91 | 12.50 | <=38.45 | Pass |
|                                              |       |    | 7  | 18.50 | -3.91 | 12.44 | <=38.45 | Pass |
|                                              |       |    | 0  | 18.48 | -3.91 | 12.42 | <=38.45 | Pass |
|                                              | 847.5 | 1  | 0  | 18.50 | -3.91 | 12.44 | <=38.45 | Pass |
|                                              |       |    | 7  | 18.73 | -3.91 | 12.67 | <=38.45 | Pass |
|                                              |       |    | 14 | 18.65 | -3.91 | 12.59 | <=38.45 | Pass |
|                                              |       | 8  | 0  | 18.74 | -3.91 | 12.68 | <=38.45 | Pass |
|                                              |       |    | 4  | 18.63 | -3.91 | 12.57 | <=38.45 | Pass |
|                                              |       |    | 7  | 18.69 | -3.91 | 12.63 | <=38.45 | Pass |
|                                              |       | 15 | 0  | 18.66 | -3.91 | 12.60 | <=38.45 | Pass |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 |       |    |    |       |       |       |         |      |

### 1.1.3 B5\_5MHz\_ERP (ANT13)

| Band: 5 / Bandwidth: 5MHz / NTV |                 |               |        |                       |            |           |         |         |
|---------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                 |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                            | 826.5           | 1             | 0      | 23.30                 | -3.91      | 17.24     | <=38.45 | Pass    |
|                                 |                 |               | 13     | 23.28                 | -3.91      | 17.22     | <=38.45 | Pass    |
|                                 |                 |               | 24     | 23.26                 | -3.91      | 17.20     | <=38.45 | Pass    |
|                                 |                 | 12            | 0      | 22.41                 | -3.91      | 16.35     | <=38.45 | Pass    |
|                                 |                 |               | 6      | 22.39                 | -3.91      | 16.33     | <=38.45 | Pass    |
|                                 |                 |               | 13     | 22.36                 | -3.91      | 16.30     | <=38.45 | Pass    |
|                                 |                 | 25            | 0      | 22.38                 | -3.91      | 16.32     | <=38.45 | Pass    |
|                                 | 836.5           | 1             | 0      | 23.42                 | -3.91      | 17.36     | <=38.45 | Pass    |
|                                 |                 |               | 13     | 23.48                 | -3.91      | 17.42     | <=38.45 | Pass    |
|                                 |                 |               | 24     | 23.49                 | -3.91      | 17.43     | <=38.45 | Pass    |
|                                 |                 | 12            | 0      | 22.48                 | -3.91      | 16.42     | <=38.45 | Pass    |
|                                 |                 |               | 6      | 22.54                 | -3.91      | 16.48     | <=38.45 | Pass    |
|                                 |                 |               | 13     | 22.56                 | -3.91      | 16.50     | <=38.45 | Pass    |
|                                 |                 | 25            | 0      | 22.43                 | -3.91      | 16.37     | <=38.45 | Pass    |
|                                 | 846.5           | 1             | 0      | 23.58                 | -3.91      | 17.52     | <=38.45 | Pass    |
|                                 |                 |               | 13     | 23.62                 | -3.91      | 17.56     | <=38.45 | Pass    |
|                                 |                 |               | 24     | 23.50                 | -3.91      | 17.44     | <=38.45 | Pass    |
|                                 |                 | 12            | 0      | 22.65                 | -3.91      | 16.59     | <=38.45 | Pass    |
|                                 |                 |               | 6      | 22.59                 | -3.91      | 16.53     | <=38.45 | Pass    |
|                                 |                 |               | 13     | 22.66                 | -3.91      | 16.60     | <=38.45 | Pass    |
|                                 |                 | 25            | 0      | 22.60                 | -3.91      | 16.54     | <=38.45 | Pass    |
| 16QAM                           | 826.5           | 1             | 0      | 22.52                 | -3.91      | 16.46     | <=38.45 | Pass    |
|                                 |                 |               | 13     | 22.80                 | -3.91      | 16.74     | <=38.45 | Pass    |
|                                 |                 |               | 24     | 22.68                 | -3.91      | 16.62     | <=38.45 | Pass    |
|                                 |                 | 12            | 0      | 21.43                 | -3.91      | 15.37     | <=38.45 | Pass    |
|                                 |                 |               | 6      | 21.48                 | -3.91      | 15.42     | <=38.45 | Pass    |
|                                 |                 |               | 13     | 21.46                 | -3.91      | 15.40     | <=38.45 | Pass    |
|                                 |                 | 25            | 0      | 21.41                 | -3.91      | 15.35     | <=38.45 | Pass    |
|                                 | 836.5           | 1             | 0      | 22.80                 | -3.91      | 16.74     | <=38.45 | Pass    |
|                                 |                 |               | 13     | 22.98                 | -3.91      | 16.92     | <=38.45 | Pass    |
|                                 |                 |               | 24     | 22.80                 | -3.91      | 16.74     | <=38.45 | Pass    |
|                                 |                 | 12            | 0      | 21.52                 | -3.91      | 15.46     | <=38.45 | Pass    |
|                                 |                 |               | 6      | 21.61                 | -3.91      | 15.55     | <=38.45 | Pass    |
|                                 |                 |               | 13     | 21.63                 | -3.91      | 15.57     | <=38.45 | Pass    |
|                                 |                 | 25            | 0      | 21.50                 | -3.91      | 15.44     | <=38.45 | Pass    |
|                                 | 846.5           | 1             | 0      | 22.80                 | -3.91      | 16.74     | <=38.45 | Pass    |
|                                 |                 |               | 13     | 23.05                 | -3.91      | 16.99     | <=38.45 | Pass    |
|                                 |                 |               | 24     | 23.05                 | -3.91      | 16.99     | <=38.45 | Pass    |
|                                 |                 | 12            | 0      | 21.54                 | -3.91      | 15.48     | <=38.45 | Pass    |
|                                 |                 |               | 6      | 21.63                 | -3.91      | 15.57     | <=38.45 | Pass    |

|                                              |       |        |       |       |       |         |         |         |         |
|----------------------------------------------|-------|--------|-------|-------|-------|---------|---------|---------|---------|
|                                              |       |        | 13    | 21.60 | -3.91 | 15.54   | <=38.45 | Pass    |         |
|                                              |       | 25     | 0     | 21.52 | -3.91 | 15.46   | <=38.45 | Pass    |         |
| 64QAM                                        | 826.5 | 1      | 0     | 22.40 | -3.91 | 16.34   | <=38.45 | Pass    |         |
|                                              |       |        | 13    | 22.48 | -3.91 | 16.42   | <=38.45 | Pass    |         |
|                                              |       |        | 24    | 22.25 | -3.91 | 16.19   | <=38.45 | Pass    |         |
|                                              |       |        | 0     | 21.46 | -3.91 | 15.40   | <=38.45 | Pass    |         |
|                                              |       | 12     | 6     | 21.44 | -3.91 | 15.38   | <=38.45 | Pass    |         |
|                                              |       |        | 13    | 21.32 | -3.91 | 15.26   | <=38.45 | Pass    |         |
|                                              |       |        | 25    | 0     | 21.40 | -3.91   | 15.34   | <=38.45 | Pass    |
|                                              |       | 836.5  | 1     | 0     | 22.56 | -3.91   | 16.50   | <=38.45 | Pass    |
|                                              |       |        |       | 13    | 22.74 | -3.91   | 16.68   | <=38.45 | Pass    |
|                                              |       |        |       | 24    | 22.60 | -3.91   | 16.54   | <=38.45 | Pass    |
|                                              | 12    |        | 0     | 21.57 | -3.91 | 15.51   | <=38.45 | Pass    |         |
|                                              |       |        | 6     | 21.55 | -3.91 | 15.49   | <=38.45 | Pass    |         |
|                                              |       |        | 13    | 21.58 | -3.91 | 15.52   | <=38.45 | Pass    |         |
|                                              | 25    |        | 0     | 21.46 | -3.91 | 15.40   | <=38.45 | Pass    |         |
|                                              | 846.5 | 1      | 0     | 22.57 | -3.91 | 16.51   | <=38.45 | Pass    |         |
|                                              |       |        | 13    | 22.72 | -3.91 | 16.66   | <=38.45 | Pass    |         |
|                                              |       |        | 24    | 22.81 | -3.91 | 16.75   | <=38.45 | Pass    |         |
|                                              |       | 12     | 0     | 21.67 | -3.91 | 15.61   | <=38.45 | Pass    |         |
|                                              |       |        | 6     | 21.61 | -3.91 | 15.55   | <=38.45 | Pass    |         |
|                                              |       |        | 13    | 21.67 | -3.91 | 15.61   | <=38.45 | Pass    |         |
|                                              |       | 25     | 0     | 21.65 | -3.91 | 15.59   | <=38.45 | Pass    |         |
|                                              |       | 256QAM | 826.5 | 1     | 0     | 18.46   | -3.91   | 12.40   | <=38.45 |
|                                              | 13    |        |       |       | 18.53 | -3.91   | 12.47   | <=38.45 | Pass    |
| 24                                           | 18.41 |        |       |       | -3.91 | 12.35   | <=38.45 | Pass    |         |
| 12                                           | 0     |        |       | 18.46 | -3.91 | 12.40   | <=38.45 | Pass    |         |
|                                              | 6     |        |       | 18.50 | -3.91 | 12.44   | <=38.45 | Pass    |         |
|                                              | 13    |        |       | 18.46 | -3.91 | 12.40   | <=38.45 | Pass    |         |
| 25                                           | 0     |        |       | 18.48 | -3.91 | 12.42   | <=38.45 | Pass    |         |
| 836.5                                        | 1     |        | 0     | 18.53 | -3.91 | 12.47   | <=38.45 | Pass    |         |
|                                              |       |        | 13    | 18.47 | -3.91 | 12.41   | <=38.45 | Pass    |         |
|                                              |       |        | 24    | 18.56 | -3.91 | 12.50   | <=38.45 | Pass    |         |
|                                              | 12    |        | 0     | 18.54 | -3.91 | 12.48   | <=38.45 | Pass    |         |
|                                              |       |        | 6     | 18.61 | -3.91 | 12.55   | <=38.45 | Pass    |         |
|                                              |       |        | 13    | 18.61 | -3.91 | 12.55   | <=38.45 | Pass    |         |
| 25                                           | 0     |        | 18.47 | -3.91 | 12.41 | <=38.45 | Pass    |         |         |
| 846.5                                        | 1     |        | 0     | 18.59 | -3.91 | 12.53   | <=38.45 | Pass    |         |
|                                              |       |        | 13    | 18.81 | -3.91 | 12.75   | <=38.45 | Pass    |         |
|                                              |       |        | 24    | 17.86 | -3.91 | 11.80   | <=38.45 | Pass    |         |
|                                              | 12    |        | 0     | 18.94 | -3.91 | 12.88   | <=38.45 | Pass    |         |
|                                              |       |        | 6     | 18.61 | -3.91 | 12.55   | <=38.45 | Pass    |         |
|                                              |       |        | 13    | 18.57 | -3.91 | 12.51   | <=38.45 | Pass    |         |
|                                              | 25    |        | 0     | 18.63 | -3.91 | 12.57   | <=38.45 | Pass    |         |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 |       |        |       |       |       |         |         |         |         |

#### 1.1.4 B5\_10MHz\_ERP (ANT13)

| Band: 5 / Bandwidth: 10MHz / NTV |                 |               |        |                       |            |           |         |         |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                  |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                             | 829             | 1             | 0      | 23.41                 | -3.91      | 17.35     | <=38.45 | Pass    |
|                                  |                 |               | 25     | 23.38                 | -3.91      | 17.32     | <=38.45 | Pass    |
|                                  |                 |               | 49     | 23.45                 | -3.91      | 17.39     | <=38.45 | Pass    |
|                                  |                 | 25            | 0      | 22.41                 | -3.91      | 16.35     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 22.50                 | -3.91      | 16.44     | <=38.45 | Pass    |
|                                  |                 |               | 25     | 22.43                 | -3.91      | 16.37     | <=38.45 | Pass    |

|        |       |    |       |       |       |         |         |      |
|--------|-------|----|-------|-------|-------|---------|---------|------|
|        |       | 50 | 0     | 22.47 | -3.91 | 16.41   | <=38.45 | Pass |
|        | 836.5 | 1  | 0     | 23.28 | -3.91 | 17.22   | <=38.45 | Pass |
|        |       |    | 25    | 23.50 | -3.91 | 17.44   | <=38.45 | Pass |
|        |       |    | 49    | 23.51 | -3.91 | 17.45   | <=38.45 | Pass |
|        |       |    | 0     | 22.48 | -3.91 | 16.42   | <=38.45 | Pass |
|        |       | 13 | 22.53 | -3.91 | 16.47 | <=38.45 | Pass    |      |
|        |       | 25 | 22.55 | -3.91 | 16.49 | <=38.45 | Pass    |      |
|        | 50    | 0  | 22.46 | -3.91 | 16.40 | <=38.45 | Pass    |      |
|        | 844   | 1  | 0     | 23.54 | -3.91 | 17.48   | <=38.45 | Pass |
|        |       |    | 25    | 23.53 | -3.91 | 17.47   | <=38.45 | Pass |
|        |       |    | 49    | 23.47 | -3.91 | 17.41   | <=38.45 | Pass |
|        |       | 25 | 0     | 22.60 | -3.91 | 16.54   | <=38.45 | Pass |
|        |       |    | 13    | 22.68 | -3.91 | 16.62   | <=38.45 | Pass |
|        |       |    | 25    | 22.64 | -3.91 | 16.58   | <=38.45 | Pass |
|        | 50    | 0  | 22.50 | -3.91 | 16.44 | <=38.45 | Pass    |      |
| 16QAM  | 829   | 1  | 0     | 22.65 | -3.91 | 16.59   | <=38.45 | Pass |
|        |       |    | 25    | 22.75 | -3.91 | 16.69   | <=38.45 | Pass |
|        |       |    | 49    | 22.81 | -3.91 | 16.75   | <=38.45 | Pass |
|        |       | 25 | 0     | 21.43 | -3.91 | 15.37   | <=38.45 | Pass |
|        |       |    | 13    | 21.53 | -3.91 | 15.47   | <=38.45 | Pass |
|        |       |    | 25    | 21.41 | -3.91 | 15.35   | <=38.45 | Pass |
|        |       | 50 | 0     | 21.49 | -3.91 | 15.43   | <=38.45 | Pass |
|        | 836.5 | 1  | 0     | 22.79 | -3.91 | 16.73   | <=38.45 | Pass |
|        |       |    | 25    | 22.71 | -3.91 | 16.65   | <=38.45 | Pass |
|        |       |    | 49    | 22.71 | -3.91 | 16.65   | <=38.45 | Pass |
|        |       | 25 | 0     | 21.50 | -3.91 | 15.44   | <=38.45 | Pass |
|        |       |    | 13    | 21.61 | -3.91 | 15.55   | <=38.45 | Pass |
|        |       |    | 25    | 21.62 | -3.91 | 15.56   | <=38.45 | Pass |
|        |       | 50 | 0     | 21.53 | -3.91 | 15.47   | <=38.45 | Pass |
|        | 844   | 1  | 0     | 22.85 | -3.91 | 16.79   | <=38.45 | Pass |
|        |       |    | 25    | 22.90 | -3.91 | 16.84   | <=38.45 | Pass |
|        |       |    | 49    | 22.70 | -3.91 | 16.64   | <=38.45 | Pass |
|        |       | 25 | 0     | 21.52 | -3.91 | 15.46   | <=38.45 | Pass |
|        |       |    | 13    | 21.74 | -3.91 | 15.68   | <=38.45 | Pass |
|        |       |    | 25    | 21.61 | -3.91 | 15.55   | <=38.45 | Pass |
|        |       | 50 | 0     | 21.64 | -3.91 | 15.58   | <=38.45 | Pass |
| 64QAM  | 829   | 1  | 0     | 22.78 | -3.91 | 16.72   | <=38.45 | Pass |
|        |       |    | 25    | 22.63 | -3.91 | 16.57   | <=38.45 | Pass |
|        |       |    | 49    | 22.55 | -3.91 | 16.49   | <=38.45 | Pass |
|        |       | 25 | 0     | 21.34 | -3.91 | 15.28   | <=38.45 | Pass |
|        |       |    | 13    | 21.44 | -3.91 | 15.38   | <=38.45 | Pass |
|        |       |    | 25    | 21.49 | -3.91 | 15.43   | <=38.45 | Pass |
|        |       | 50 | 0     | 21.42 | -3.91 | 15.36   | <=38.45 | Pass |
|        | 836.5 | 1  | 0     | 22.52 | -3.91 | 16.46   | <=38.45 | Pass |
|        |       |    | 25    | 22.83 | -3.91 | 16.77   | <=38.45 | Pass |
|        |       |    | 49    | 22.59 | -3.91 | 16.53   | <=38.45 | Pass |
|        |       | 25 | 0     | 21.44 | -3.91 | 15.38   | <=38.45 | Pass |
|        |       |    | 13    | 21.55 | -3.91 | 15.49   | <=38.45 | Pass |
|        |       |    | 25    | 21.61 | -3.91 | 15.55   | <=38.45 | Pass |
|        |       | 50 | 0     | 21.63 | -3.91 | 15.57   | <=38.45 | Pass |
|        | 844   | 1  | 0     | 22.69 | -3.91 | 16.63   | <=38.45 | Pass |
|        |       |    | 25    | 22.64 | -3.91 | 16.58   | <=38.45 | Pass |
|        |       |    | 49    | 22.60 | -3.91 | 16.54   | <=38.45 | Pass |
|        |       | 25 | 0     | 21.62 | -3.91 | 15.56   | <=38.45 | Pass |
|        |       |    | 13    | 21.66 | -3.91 | 15.60   | <=38.45 | Pass |
|        |       |    | 25    | 21.60 | -3.91 | 15.54   | <=38.45 | Pass |
|        |       | 50 | 0     | 21.57 | -3.91 | 15.51   | <=38.45 | Pass |
| 256QAM | 829   | 1  | 0     | 18.36 | -3.91 | 12.30   | <=38.45 | Pass |
|        |       |    | 25    | 18.64 | -3.91 | 12.58   | <=38.45 | Pass |

|                                              |       |     |    |       |       |       |         |         |
|----------------------------------------------|-------|-----|----|-------|-------|-------|---------|---------|
|                                              |       |     | 49 | 18.33 | -3.91 | 12.27 | <=38.45 | Pass    |
|                                              |       | 25  | 0  | 19.18 | -3.91 | 13.12 | <=38.45 | Pass    |
|                                              |       |     | 13 | 18.48 | -3.91 | 12.42 | <=38.45 | Pass    |
|                                              |       |     | 25 | 18.54 | -3.91 | 12.48 | <=38.45 | Pass    |
|                                              |       | 50  | 0  | 18.55 | -3.91 | 12.49 | <=38.45 | Pass    |
|                                              | 836.5 | 1   | 0  | 18.58 | -3.91 | 12.52 | <=38.45 | Pass    |
|                                              |       |     | 25 | 17.65 | -3.91 | 11.59 | <=38.45 | Pass    |
|                                              |       |     | 49 | 18.78 | -3.91 | 12.72 | <=38.45 | Pass    |
|                                              |       | 25  | 0  | 18.66 | -3.91 | 12.60 | <=38.45 | Pass    |
|                                              |       |     | 13 | 18.58 | -3.91 | 12.52 | <=38.45 | Pass    |
|                                              |       |     | 25 | 18.58 | -3.91 | 12.52 | <=38.45 | Pass    |
|                                              |       | 50  | 0  | 18.54 | -3.91 | 12.48 | <=38.45 | Pass    |
|                                              |       | 844 | 1  | 0     | 18.39 | -3.91 | 12.33   | <=38.45 |
|                                              | 25    |     |    | 19.68 | -3.91 | 13.62 | <=38.45 | Pass    |
|                                              | 49    |     |    | 18.32 | -3.91 | 12.26 | <=38.45 | Pass    |
|                                              | 25    |     | 0  | 18.55 | -3.91 | 12.49 | <=38.45 | Pass    |
|                                              |       |     | 13 | 18.60 | -3.91 | 12.54 | <=38.45 | Pass    |
|                                              |       |     | 25 | 18.73 | -3.91 | 12.67 | <=38.45 | Pass    |
|                                              | 50    |     | 0  | 18.60 | -3.91 | 12.54 | <=38.45 | Pass    |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 |       |     |    |       |       |       |         |         |

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B5\_10MHz

| Band: 5 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 829             | 50            | 0      | 20         | 3.7           | 2.600            | 0.0031                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.91          | -1.100           | -0.0013               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.4           | 0.600            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.91          | 0.600            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.91          | -0.300           | -0.0004               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.91          | 0.400            | 0.0005                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.91          | 0.700            | 0.0008                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.91          | 1.500            | 0.0018                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.91          | 0.200            | 0.0002                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.91          | -0.400           | -0.0005               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.91          | 0.300            | 0.0004                | -2.5 to 2.5 | Pass    |
|                            | 836.5           | 50            | 0      | 20         | 3.7           | -1.800           | -0.0022               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.91          | -1.300           | -0.0016               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.4           | 0.400            | 0.0005                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.91          | 0.300            | 0.0004                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.91          | -0.200           | -0.0002               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.91          | 0.200            | 0.0002                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.91          | -0.900           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.91          | -0.700           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.91          | 1.500            | 0.0018                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.91          | 0.400            | 0.0005                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.91          | -0.200           | -0.0002               | -2.5 to 2.5 | Pass    |
|                            | 844             | 50            | 0      | 20         | 3.7           | -2.300           | -0.0027               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.91          | -2.300           | -0.0027               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.4           | 0.200            | 0.0002                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.91          | -1.000           | -0.0012               | -2.5 to 2.5 | Pass    |

|       |       |    |   |     |      |         |         |             |      |
|-------|-------|----|---|-----|------|---------|---------|-------------|------|
|       |       |    |   | -20 | 3.91 | -0.900  | -0.0011 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.91 | -0.100  | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.91 | 0.300   | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.91 | -0.800  | -0.0009 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.91 | -0.100  | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.91 | -0.700  | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.91 | -1.500  | -0.0018 | -2.5 to 2.5 | Pass |
| 16QAM | 829   | 50 | 0 | 20  | 3.7  | 1.400   | 0.0017  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.91 | 0.400   | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.4  | 2.200   | 0.0027  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.91 | -0.300  | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.91 | -0.800  | -0.0010 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.91 | 0.700   | 0.0008  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.91 | 0.000   | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.91 | 0.600   | 0.0007  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.91 | 1.000   | 0.0012  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.91 | 0.900   | 0.0011  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.91 | -1.700  | -0.0021 | -2.5 to 2.5 | Pass |
|       | 836.5 | 50 | 0 | 20  | 3.7  | -0.800  | -0.0010 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.91 | -0.300  | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.4  | 1.000   | 0.0012  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.91 | -1.200  | -0.0014 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.91 | -0.600  | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.91 | 1.900   | 0.0023  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.91 | -0.500  | -0.0006 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.91 | -0.400  | -0.0005 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.91 | -0.600  | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.91 | 0.400   | 0.0005  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.91 | -1.000  | -0.0012 | -2.5 to 2.5 | Pass |
|       | 844   | 50 | 0 | 20  | 3.7  | -1.400  | -0.0017 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.91 | -0.300  | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.4  | -0.100  | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.91 | -0.200  | -0.0002 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.91 | 0.500   | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.91 | 1.000   | 0.0012  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.91 | -0.100  | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.91 | -0.100  | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.91 | 0.200   | 0.0002  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.91 | 0.700   | 0.0008  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.91 | -0.200  | -0.0002 | -2.5 to 2.5 | Pass |
| 64QAM | 829   | 50 | 0 | 20  | 3.7  | 17.500  | 0.0211  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.91 | -5.800  | -0.0070 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.4  | 11.700  | 0.0141  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.91 | 51.300  | 0.0619  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.91 | 16.200  | 0.0195  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.91 | 10.300  | 0.0124  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.91 | 3.700   | 0.0045  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.91 | 11.900  | 0.0144  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.91 | -13.100 | -0.0158 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.91 | 2.700   | 0.0033  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.91 | -26.500 | -0.0320 | -2.5 to 2.5 | Pass |
|       | 836.5 | 50 | 0 | 20  | 3.7  | -14.500 | -0.0173 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.91 | -14.900 | -0.0178 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.4  | -18.900 | -0.0226 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.91 | -19.700 | -0.0236 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.91 | -19.500 | -0.0233 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.91 | 21.200  | 0.0253  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.91 | -6.300  | -0.0075 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.91 | 1.600   | 0.0019  | -2.5 to 2.5 | Pass |



|        |       |    |   |     |      |         |         |             |      |
|--------|-------|----|---|-----|------|---------|---------|-------------|------|
|        | 844   | 50 | 0 | 30  | 3.91 | 0.200   | 0.0002  | -2.5 to 2.5 | Pass |
|        |       |    |   | 40  | 3.91 | -12.100 | -0.0145 | -2.5 to 2.5 | Pass |
|        |       |    |   | 50  | 3.91 | -3.600  | -0.0043 | -2.5 to 2.5 | Pass |
|        |       |    |   | 20  | 3.7  | 12.200  | 0.0145  | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 3.91 | 4.700   | 0.0056  | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 4.4  | 4.900   | 0.0058  | -2.5 to 2.5 | Pass |
|        |       |    |   | -30 | 3.91 | -10.100 | -0.0120 | -2.5 to 2.5 | Pass |
|        |       |    |   | -20 | 3.91 | 23.500  | 0.0278  | -2.5 to 2.5 | Pass |
|        |       |    |   | -10 | 3.91 | 19.100  | 0.0226  | -2.5 to 2.5 | Pass |
|        |       |    |   | 0   | 3.91 | -27.100 | -0.0321 | -2.5 to 2.5 | Pass |
|        |       |    |   | 10  | 3.91 | 9.500   | 0.0113  | -2.5 to 2.5 | Pass |
|        |       |    |   | 30  | 3.91 | 12.000  | 0.0142  | -2.5 to 2.5 | Pass |
|        |       |    |   | 40  | 3.91 | -16.300 | -0.0193 | -2.5 to 2.5 | Pass |
|        |       |    |   | 50  | 3.91 | 18.800  | 0.0223  | -2.5 to 2.5 | Pass |
| 256QAM | 829   | 50 | 0 | 20  | 3.7  | 0.500   | 0.0006  | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 3.91 | -0.200  | -0.0002 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 4.4  | 0.700   | 0.0008  | -2.5 to 2.5 | Pass |
|        |       |    |   | -30 | 3.91 | 0.300   | 0.0004  | -2.5 to 2.5 | Pass |
|        |       |    |   | -20 | 3.91 | 1.600   | 0.0019  | -2.5 to 2.5 | Pass |
|        |       |    |   | -10 | 3.91 | -0.600  | -0.0007 | -2.5 to 2.5 | Pass |
|        |       |    |   | 0   | 3.91 | -0.600  | -0.0007 | -2.5 to 2.5 | Pass |
|        |       |    |   | 10  | 3.91 | -1.000  | -0.0012 | -2.5 to 2.5 | Pass |
|        |       |    |   | 30  | 3.91 | -1.100  | -0.0013 | -2.5 to 2.5 | Pass |
|        |       |    |   | 40  | 3.91 | -0.800  | -0.0010 | -2.5 to 2.5 | Pass |
|        |       |    |   | 50  | 3.91 | -0.600  | -0.0007 | -2.5 to 2.5 | Pass |
|        | 836.5 | 50 | 0 | 20  | 3.7  | -1.800  | -0.0022 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 3.91 | -2.100  | -0.0025 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 4.4  | -0.100  | -0.0001 | -2.5 to 2.5 | Pass |
|        |       |    |   | -30 | 3.91 | -0.900  | -0.0011 | -2.5 to 2.5 | Pass |
|        |       |    |   | -20 | 3.91 | -0.900  | -0.0011 | -2.5 to 2.5 | Pass |
|        |       |    |   | -10 | 3.91 | -0.600  | -0.0007 | -2.5 to 2.5 | Pass |
|        |       |    |   | 0   | 3.91 | -1.900  | -0.0023 | -2.5 to 2.5 | Pass |
|        |       |    |   | 10  | 3.91 | -0.100  | -0.0001 | -2.5 to 2.5 | Pass |
|        |       |    |   | 30  | 3.91 | -1.700  | -0.0020 | -2.5 to 2.5 | Pass |
|        |       |    |   | 40  | 3.91 | -2.600  | -0.0031 | -2.5 to 2.5 | Pass |
|        |       |    |   | 50  | 3.91 | -0.200  | -0.0002 | -2.5 to 2.5 | Pass |
|        | 844   | 50 | 0 | 20  | 3.7  | -1.200  | -0.0014 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 3.91 | -2.500  | -0.0030 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 4.4  | 0.600   | 0.0007  | -2.5 to 2.5 | Pass |
|        |       |    |   | -30 | 3.91 | -0.800  | -0.0009 | -2.5 to 2.5 | Pass |
|        |       |    |   | -20 | 3.91 | -1.000  | -0.0012 | -2.5 to 2.5 | Pass |
|        |       |    |   | -10 | 3.91 | -1.300  | -0.0015 | -2.5 to 2.5 | Pass |
|        |       |    |   | 0   | 3.91 | -0.100  | -0.0001 | -2.5 to 2.5 | Pass |
|        |       |    |   | 10  | 3.91 | -0.400  | -0.0005 | -2.5 to 2.5 | Pass |
|        |       |    |   | 30  | 3.91 | -0.900  | -0.0011 | -2.5 to 2.5 | Pass |
|        |       |    |   | 40  | 3.91 | -0.500  | -0.0006 | -2.5 to 2.5 | Pass |
|        |       |    |   | 50  | 3.91 | -1.100  | -0.0013 | -2.5 to 2.5 | Pass |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 Band5\_OBW

| Band: 5 / NTNV  |            |           |               |                              |         |
|-----------------|------------|-----------|---------------|------------------------------|---------|
| Bandwidth (MHz) | Modulation | Frequency | RB Allocation | 99% Occupied Bandwidth (MHz) | Verdict |

|     |        | (MHz) | Size | Offset | Result | Limit |      |
|-----|--------|-------|------|--------|--------|-------|------|
| 1.4 | QPSK   | 824.7 | 6    | 0      | 1.120  | /     | Pass |
|     |        | 836.5 | 6    | 0      | 1.120  | /     | Pass |
|     |        | 848.3 | 6    | 0      | 1.117  | /     | Pass |
|     | 16QAM  | 824.7 | 6    | 0      | 1.132  | /     | Pass |
|     |        | 836.5 | 6    | 0      | 1.128  | /     | Pass |
|     |        | 848.3 | 6    | 0      | 1.130  | /     | Pass |
|     | 64QAM  | 824.7 | 6    | 0      | 1.123  | /     | Pass |
|     |        | 836.5 | 6    | 0      | 1.123  | /     | Pass |
|     |        | 848.3 | 6    | 0      | 1.126  | /     | Pass |
|     | 256QAM | 824.7 | 6    | 0      | 1.124  | /     | Pass |
|     |        | 836.5 | 6    | 0      | 1.129  | /     | Pass |
|     |        | 848.3 | 6    | 0      | 1.122  | /     | Pass |
| 3   | QPSK   | 825.5 | 15   | 0      | 2.741  | /     | Pass |
|     |        | 836.5 | 15   | 0      | 2.733  | /     | Pass |
|     |        | 847.5 | 15   | 0      | 2.757  | /     | Pass |
|     | 16QAM  | 825.5 | 15   | 0      | 2.737  | /     | Pass |
|     |        | 836.5 | 15   | 0      | 2.743  | /     | Pass |
|     |        | 847.5 | 15   | 0      | 2.741  | /     | Pass |
|     | 64QAM  | 825.5 | 15   | 0      | 2.748  | /     | Pass |
|     |        | 836.5 | 15   | 0      | 2.745  | /     | Pass |
|     |        | 847.5 | 15   | 0      | 2.745  | /     | Pass |
|     | 256QAM | 825.5 | 15   | 0      | 2.743  | /     | Pass |
|     |        | 836.5 | 15   | 0      | 2.734  | /     | Pass |
|     |        | 847.5 | 15   | 0      | 2.731  | /     | Pass |
| 5   | QPSK   | 826.5 | 25   | 0      | 4.566  | /     | Pass |
|     |        | 836.5 | 25   | 0      | 4.579  | /     | Pass |
|     |        | 846.5 | 25   | 0      | 4.545  | /     | Pass |
|     | 16QAM  | 826.5 | 25   | 0      | 4.559  | /     | Pass |
|     |        | 836.5 | 25   | 0      | 4.567  | /     | Pass |
|     |        | 846.5 | 25   | 0      | 4.552  | /     | Pass |
|     | 64QAM  | 826.5 | 25   | 0      | 4.556  | /     | Pass |
|     |        | 836.5 | 25   | 0      | 4.548  | /     | Pass |
|     |        | 846.5 | 25   | 0      | 4.555  | /     | Pass |
|     | 256QAM | 826.5 | 25   | 0      | 4.548  | /     | Pass |
|     |        | 836.5 | 25   | 0      | 4.575  | /     | Pass |
|     |        | 846.5 | 25   | 0      | 4.547  | /     | Pass |
| 10  | QPSK   | 829   | 50   | 0      | 9.054  | /     | Pass |
|     |        | 836.5 | 50   | 0      | 9.124  | /     | Pass |
|     |        | 844   | 50   | 0      | 9.014  | /     | Pass |
|     | 16QAM  | 829   | 50   | 0      | 9.015  | /     | Pass |
|     |        | 836.5 | 50   | 0      | 9.129  | /     | Pass |
|     |        | 844   | 50   | 0      | 9.002  | /     | Pass |
|     | 64QAM  | 829   | 50   | 0      | 9.036  | /     | Pass |
|     |        | 836.5 | 50   | 0      | 9.111  | /     | Pass |
|     |        | 844   | 50   | 0      | 8.993  | /     | Pass |
|     | 256QAM | 829   | 50   | 0      | 9.033  | /     | Pass |
|     |        | 836.5 | 50   | 0      | 9.135  | /     | Pass |
|     |        | 844   | 50   | 0      | 9.029  | /     | Pass |

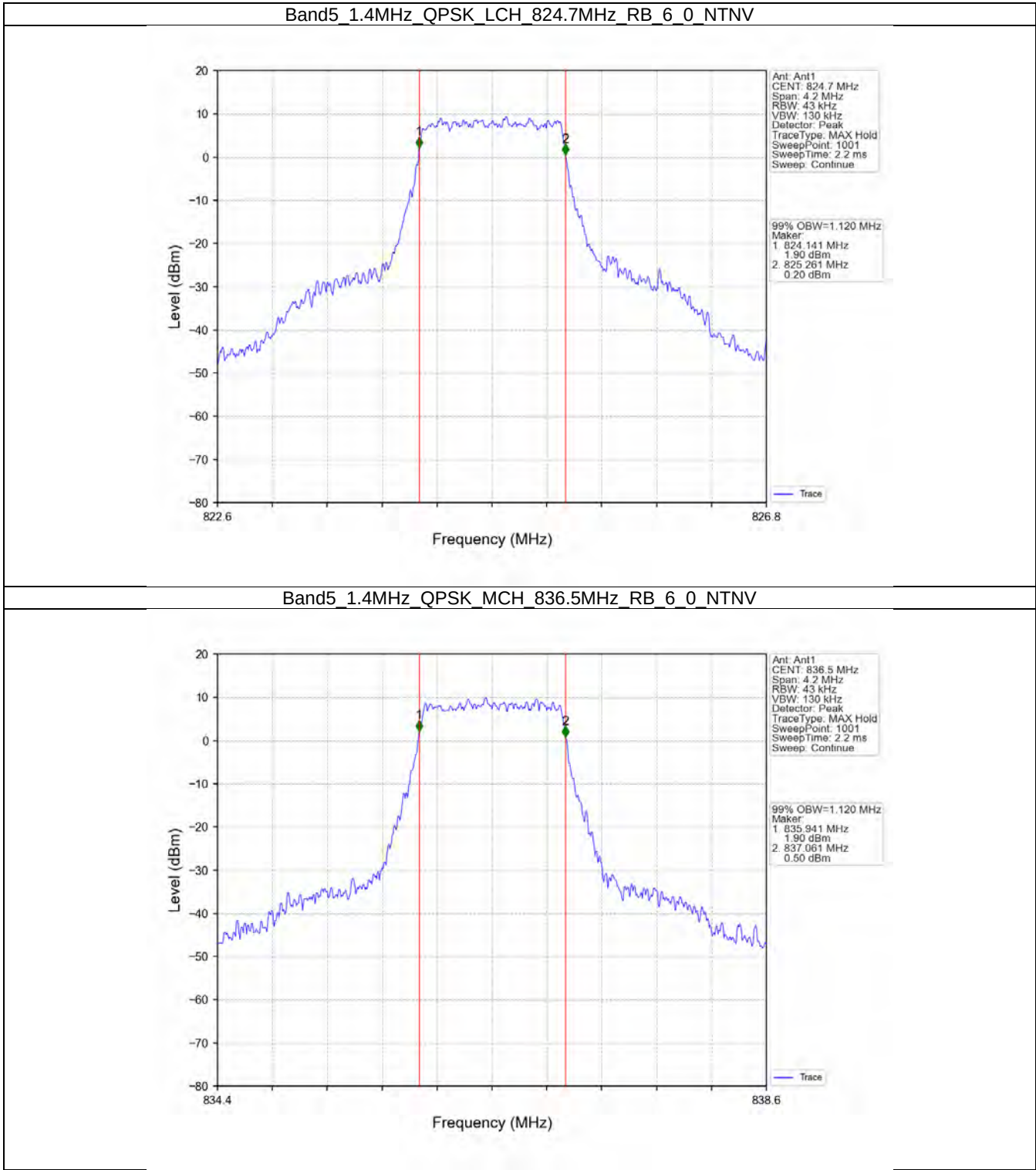
### 3.1.2 Band5\_XDB

| Band: 5 / NTNV  |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 1.4             | QPSK       | 824.7           | 6             | 0      | 1.396                | /     | Pass    |
|                 |            | 836.5           | 6             | 0      | 1.382                | /     | Pass    |

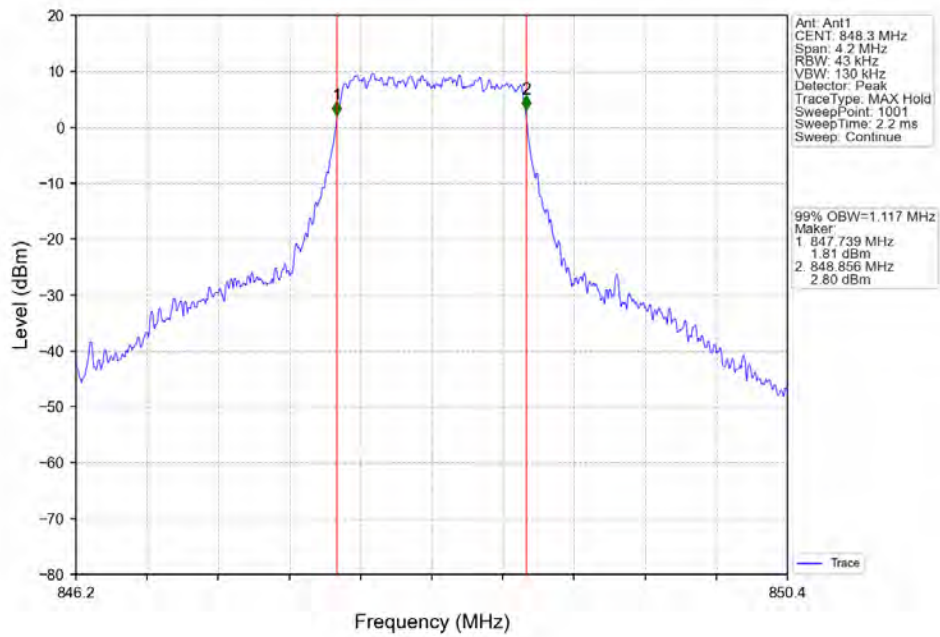
|    |        |       |    |   |        |   |      |
|----|--------|-------|----|---|--------|---|------|
|    | 16QAM  | 848.3 | 6  | 0 | 1.413  | / | Pass |
|    |        | 824.7 | 6  | 0 | 1.410  | / | Pass |
|    |        | 836.5 | 6  | 0 | 1.401  | / | Pass |
|    |        | 848.3 | 6  | 0 | 1.396  | / | Pass |
|    | 64QAM  | 824.7 | 6  | 0 | 1.417  | / | Pass |
|    |        | 836.5 | 6  | 0 | 1.363  | / | Pass |
|    |        | 848.3 | 6  | 0 | 1.387  | / | Pass |
|    | 256QAM | 824.7 | 6  | 0 | 1.386  | / | Pass |
|    |        | 836.5 | 6  | 0 | 1.367  | / | Pass |
|    |        | 848.3 | 6  | 0 | 1.400  | / | Pass |
| 3  | QPSK   | 825.5 | 15 | 0 | 3.106  | / | Pass |
|    |        | 836.5 | 15 | 0 | 3.088  | / | Pass |
|    |        | 847.5 | 15 | 0 | 3.114  | / | Pass |
|    | 16QAM  | 825.5 | 15 | 0 | 3.115  | / | Pass |
|    |        | 836.5 | 15 | 0 | 3.135  | / | Pass |
|    |        | 847.5 | 15 | 0 | 3.140  | / | Pass |
|    | 64QAM  | 825.5 | 15 | 0 | 3.071  | / | Pass |
|    |        | 836.5 | 15 | 0 | 3.107  | / | Pass |
|    |        | 847.5 | 15 | 0 | 3.157  | / | Pass |
|    | 256QAM | 825.5 | 15 | 0 | 3.073  | / | Pass |
|    |        | 836.5 | 15 | 0 | 3.058  | / | Pass |
|    |        | 847.5 | 15 | 0 | 3.080  | / | Pass |
| 5  | QPSK   | 826.5 | 25 | 0 | 5.273  | / | Pass |
|    |        | 836.5 | 25 | 0 | 5.266  | / | Pass |
|    |        | 846.5 | 25 | 0 | 5.232  | / | Pass |
|    | 16QAM  | 826.5 | 25 | 0 | 5.157  | / | Pass |
|    |        | 836.5 | 25 | 0 | 5.275  | / | Pass |
|    |        | 846.5 | 25 | 0 | 5.158  | / | Pass |
|    | 64QAM  | 826.5 | 25 | 0 | 5.213  | / | Pass |
|    |        | 836.5 | 25 | 0 | 5.393  | / | Pass |
|    |        | 846.5 | 25 | 0 | 5.167  | / | Pass |
|    | 256QAM | 826.5 | 25 | 0 | 5.151  | / | Pass |
|    |        | 836.5 | 25 | 0 | 5.176  | / | Pass |
|    |        | 846.5 | 25 | 0 | 5.187  | / | Pass |
| 10 | QPSK   | 829   | 50 | 0 | 10.202 | / | Pass |
|    |        | 836.5 | 50 | 0 | 10.121 | / | Pass |
|    |        | 844   | 50 | 0 | 10.037 | / | Pass |
|    | 16QAM  | 829   | 50 | 0 | 10.089 | / | Pass |
|    |        | 836.5 | 50 | 0 | 10.314 | / | Pass |
|    |        | 844   | 50 | 0 | 10.083 | / | Pass |
|    | 64QAM  | 829   | 50 | 0 | 10.173 | / | Pass |
|    |        | 836.5 | 50 | 0 | 10.359 | / | Pass |
|    |        | 844   | 50 | 0 | 10.155 | / | Pass |
|    | 256QAM | 829   | 50 | 0 | 10.050 | / | Pass |
|    |        | 836.5 | 50 | 0 | 10.246 | / | Pass |
|    |        | 844   | 50 | 0 | 10.039 | / | Pass |

3.2 Test Graph

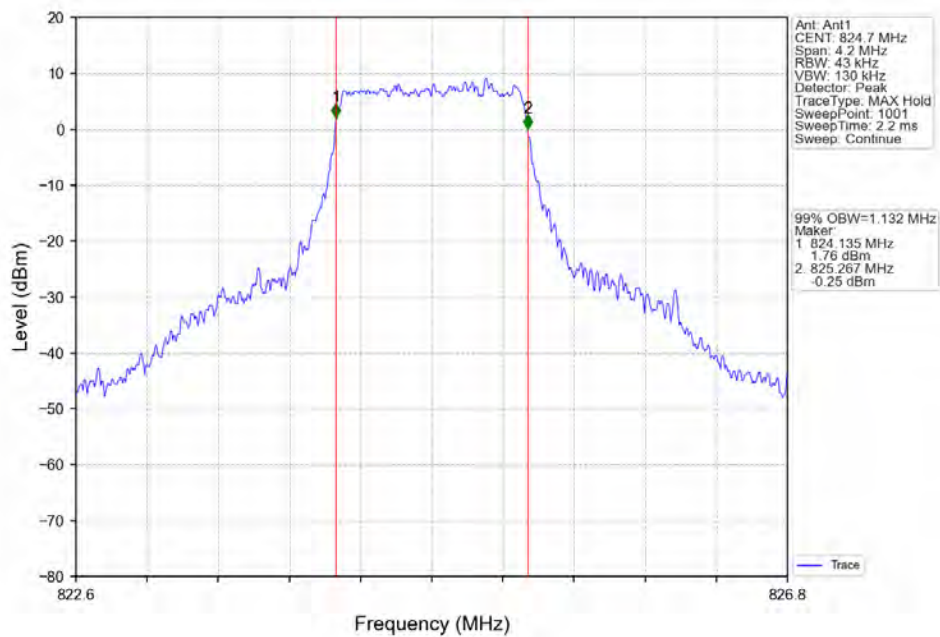
3.2.1 Band5\_OBW



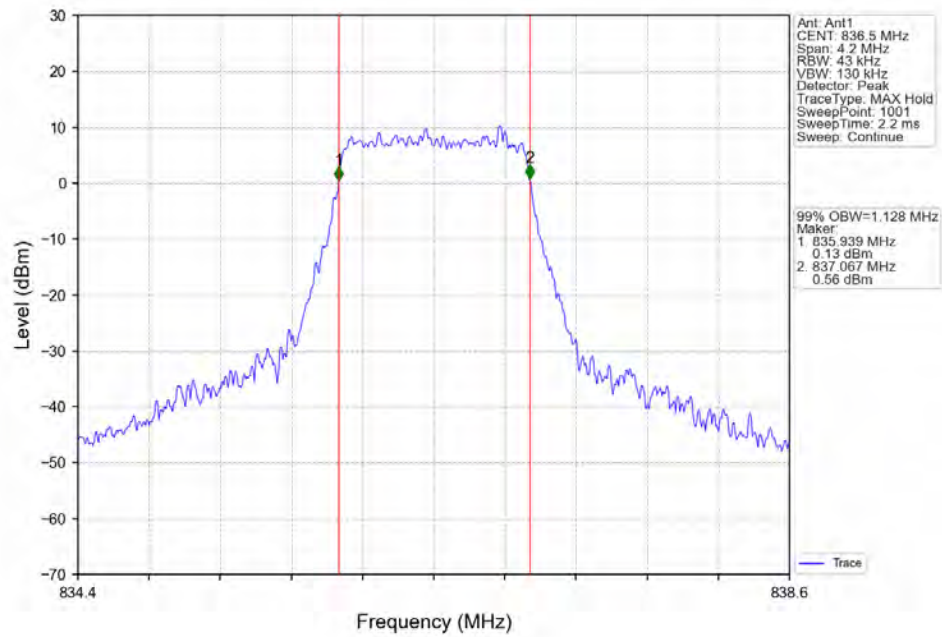
Band5 1.4MHz QPSK HCH 848.3MHz RB 6 0 NTN



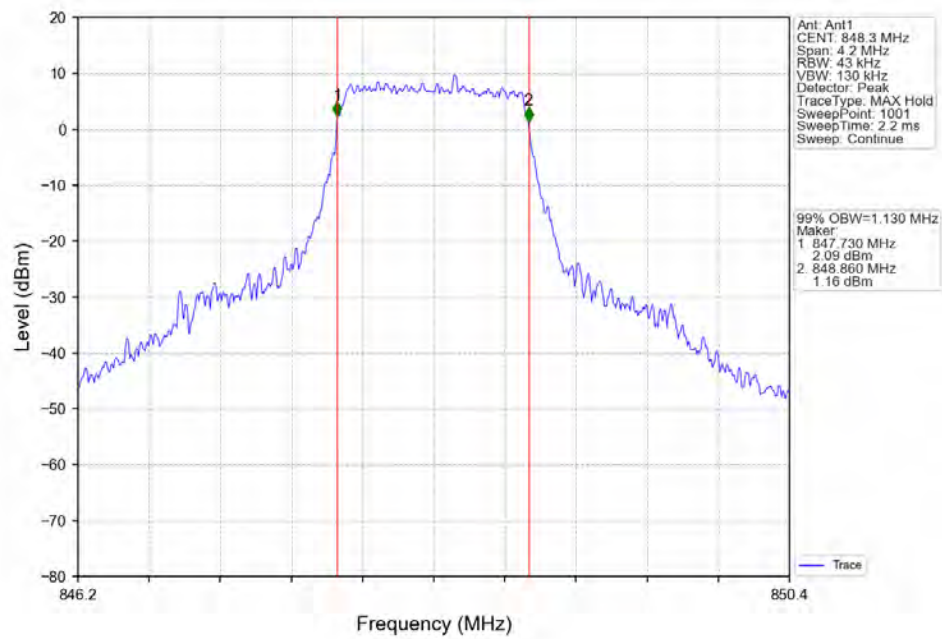
Band5 1.4MHz 16QAM LCH 824.7MHz RB 6 0 NTN



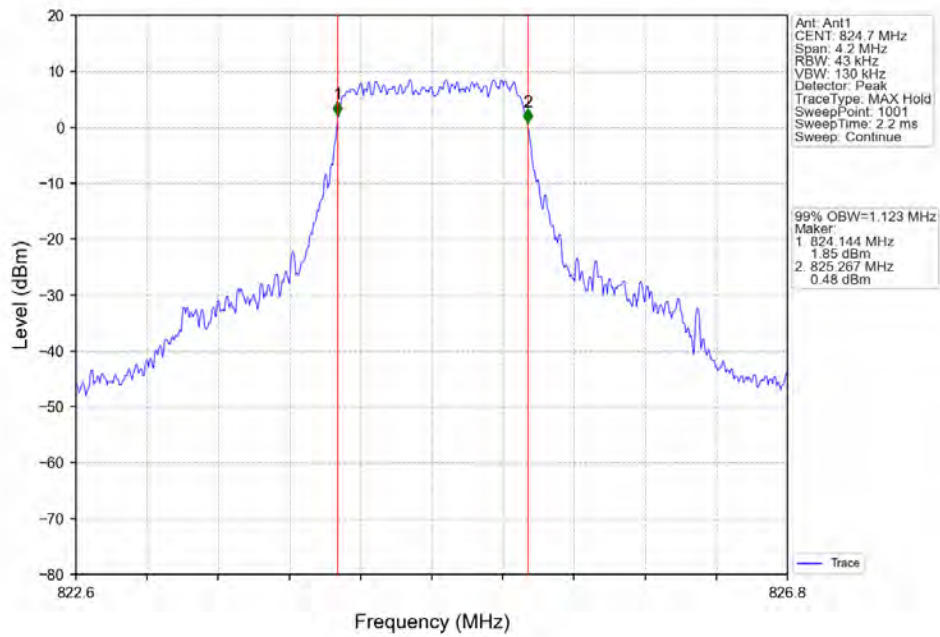
Band5 1.4MHz 16QAM MCH 836.5MHz RB 6 0 NTNV



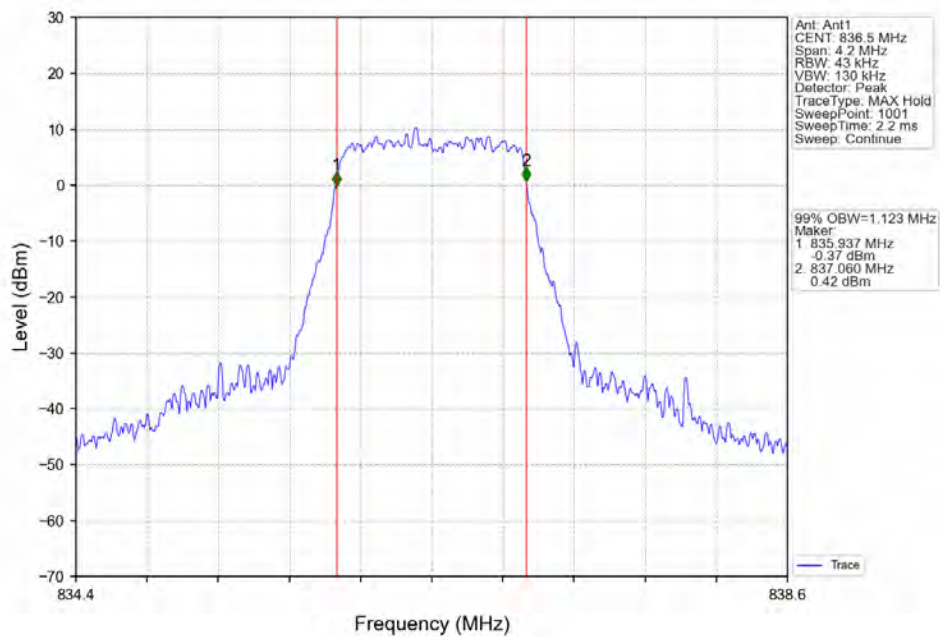
Band5 1.4MHz 16QAM HCH 848.3MHz RB 6 0 NTNV



Band5 1.4MHz 64QAM LCH 824.7MHz RB 6 0 NTNV

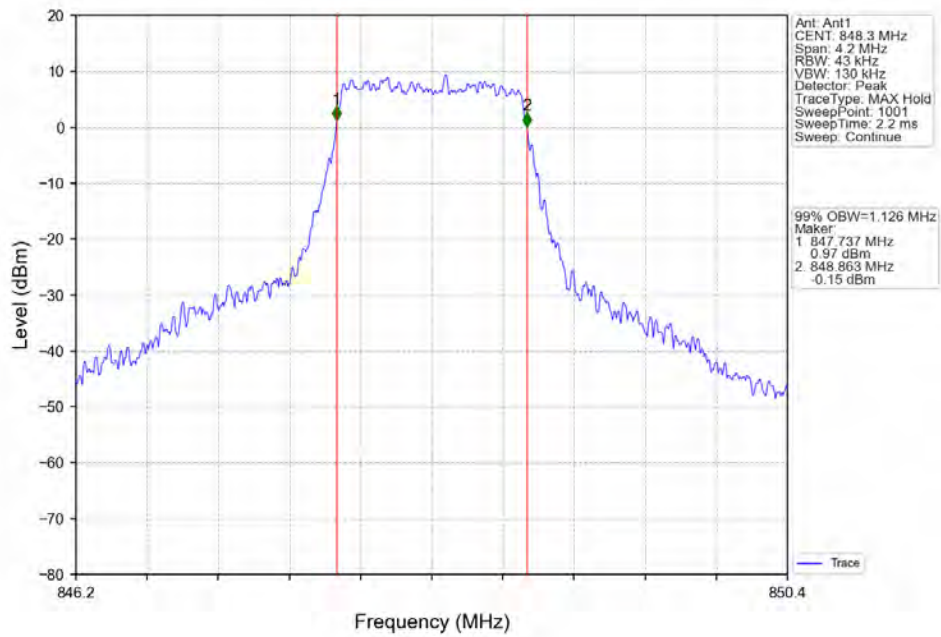


Band5 1.4MHz 64QAM MCH 836.5MHz RB 6 0 NTNV

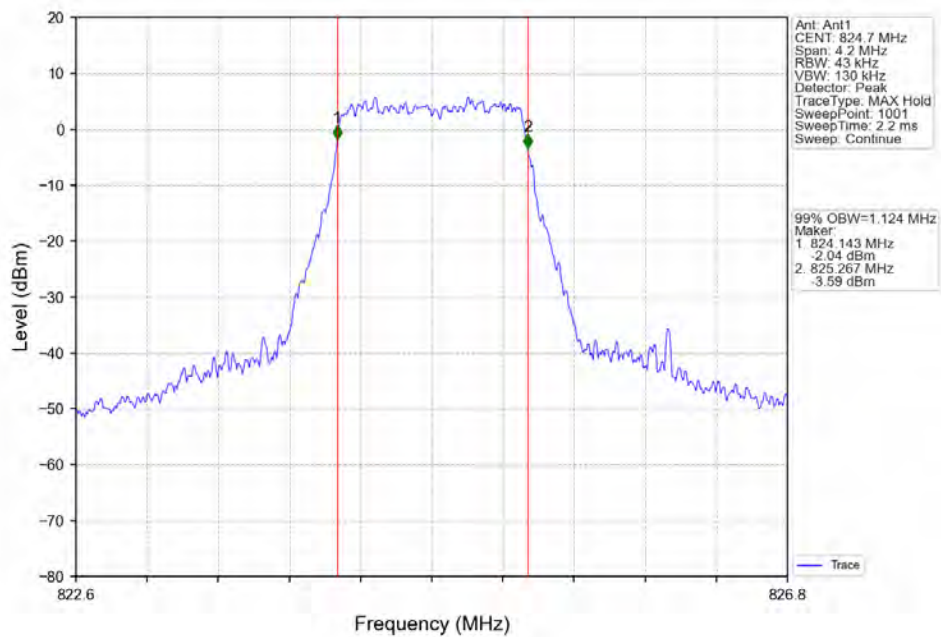




Band5 1.4MHz 64QAM HCH 848.3MHz RB 6 0 NTNV

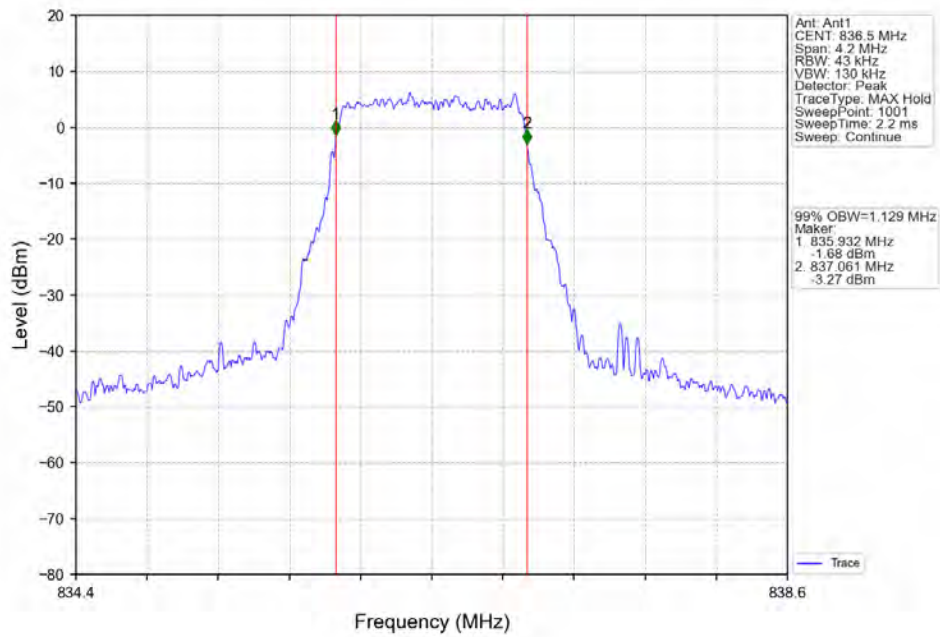


Band5 1.4MHz 256QAM LCH 824.7MHz RB 6 0 NTNV

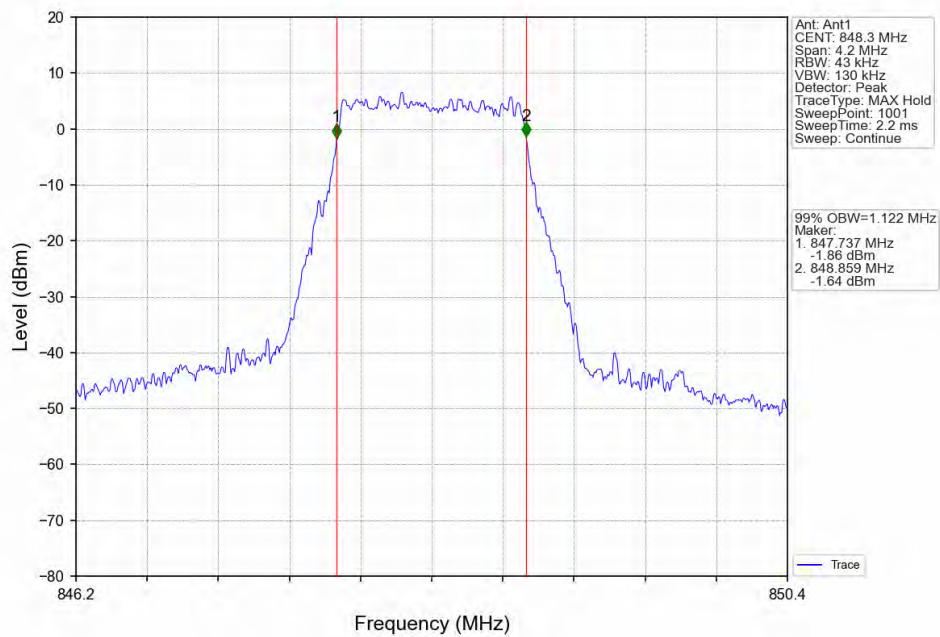




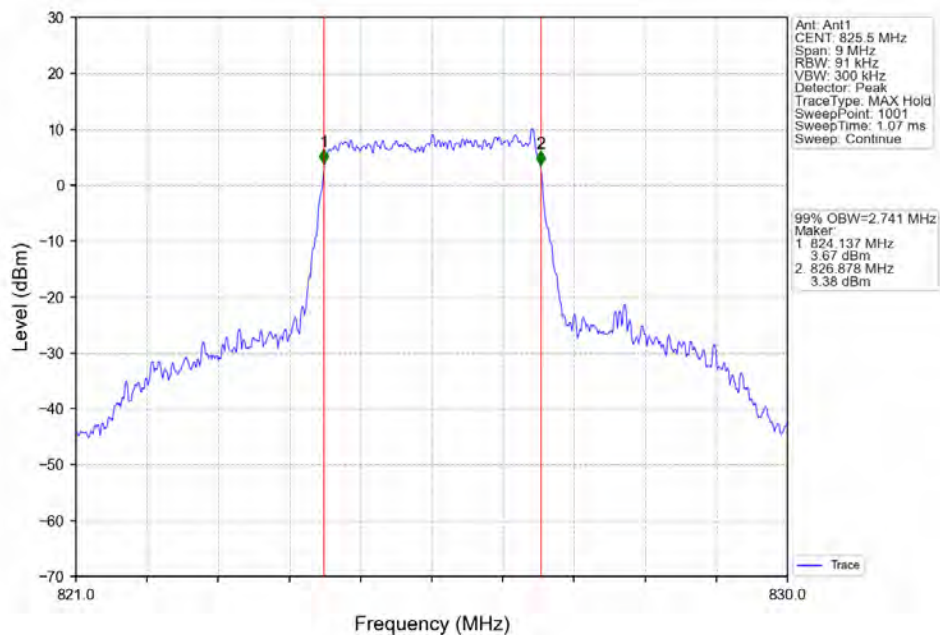
Band5 1.4MHz 256QAM MCH 836.5MHz RB 6 0 NTNV



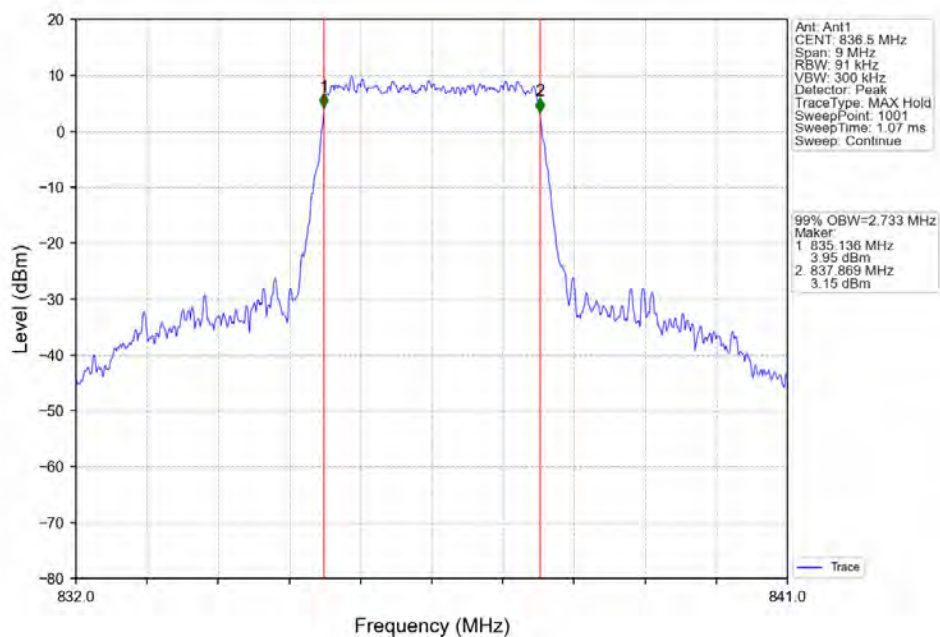
Band5 1.4MHz 256QAM HCH 848.3MHz RB 6 0 NTNV



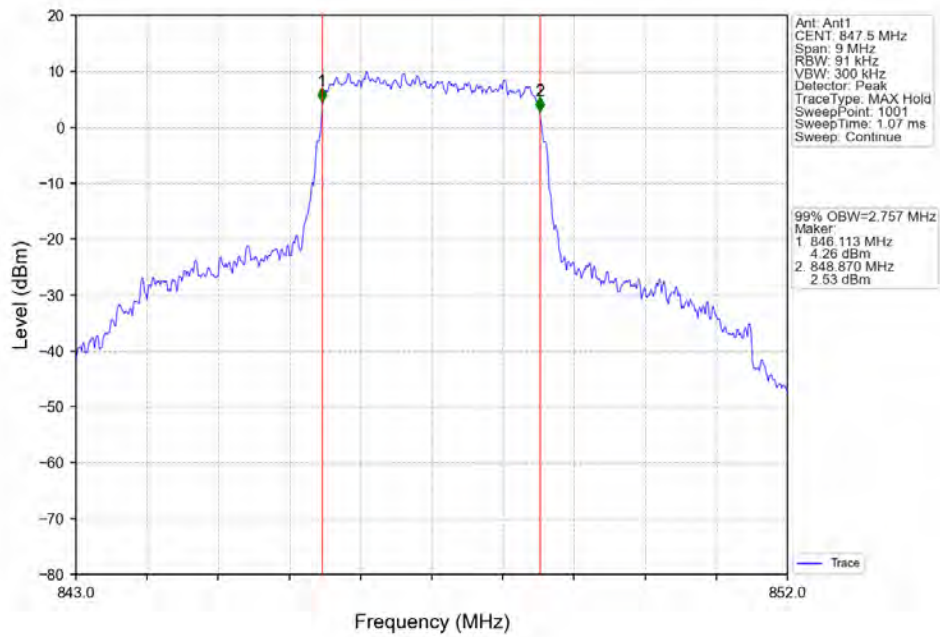
Band5 3MHz QPSK LCH 825.5MHz RB 15 0 NTNV



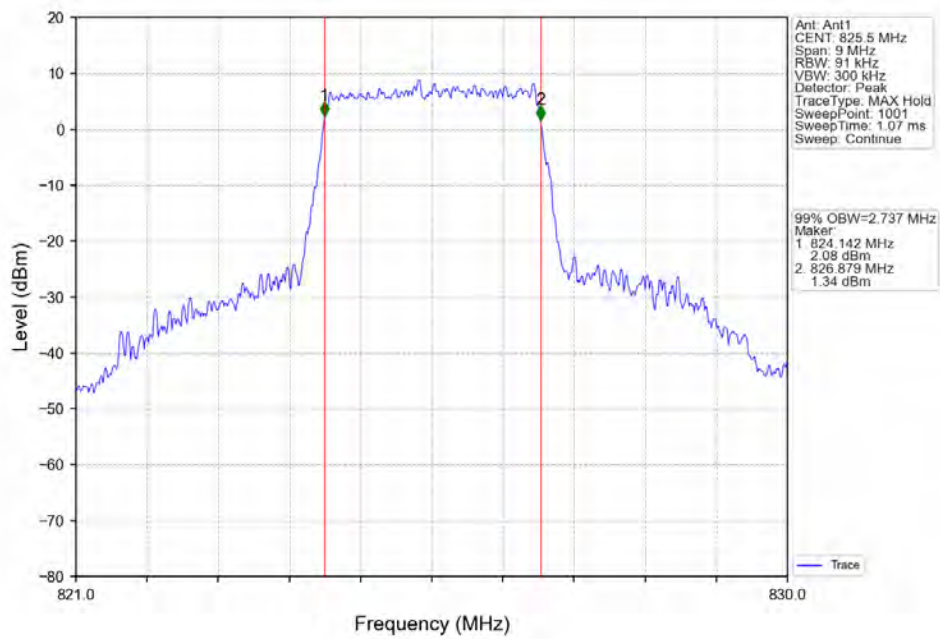
Band5 3MHz QPSK MCH 836.5MHz RB 15 0 NTNV



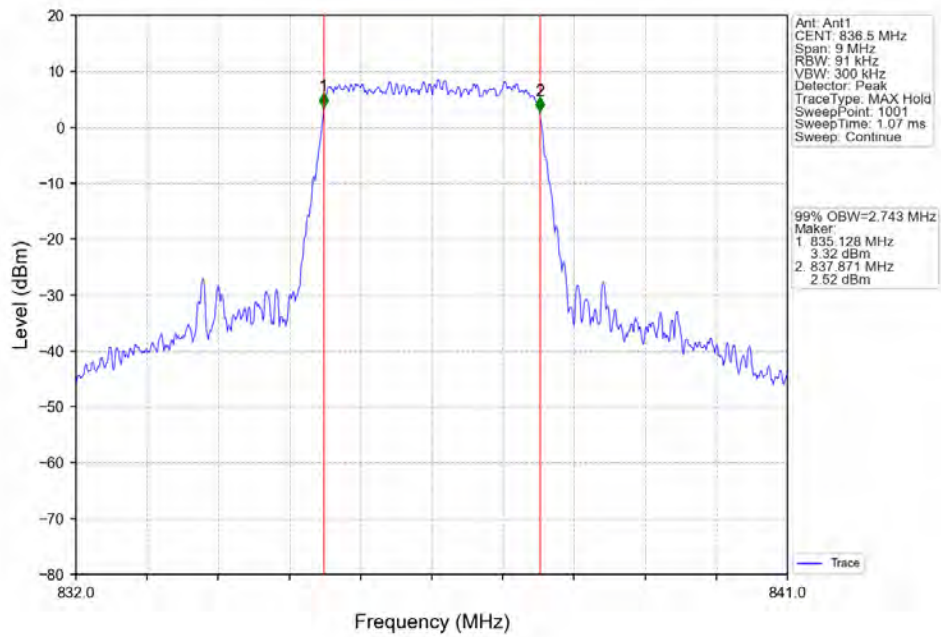
Band5 3MHz QPSK HCH 847.5MHz RB 15 0 NTN



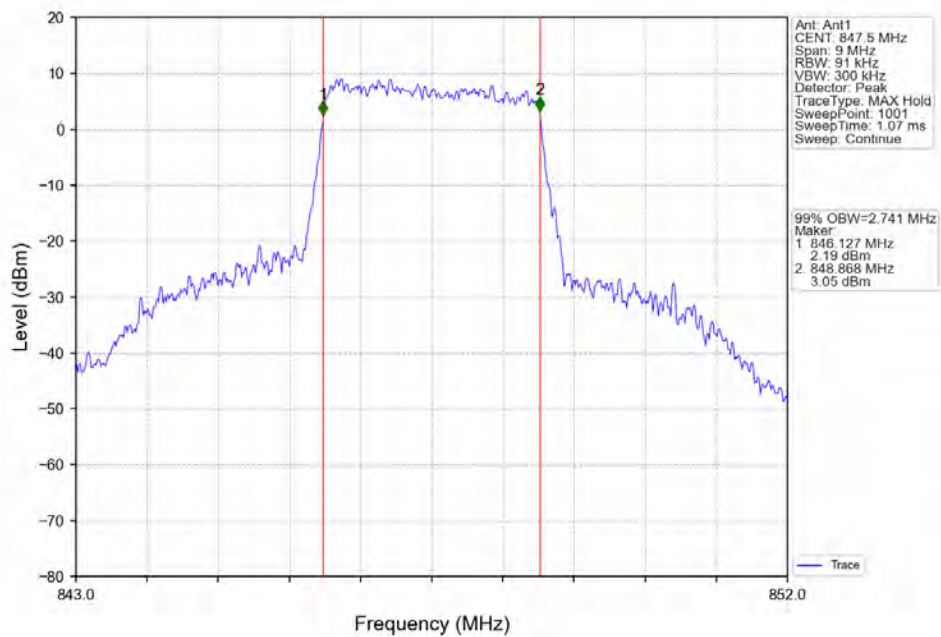
Band5 3MHz 16QAM LCH 825.5MHz RB 15 0 NTN



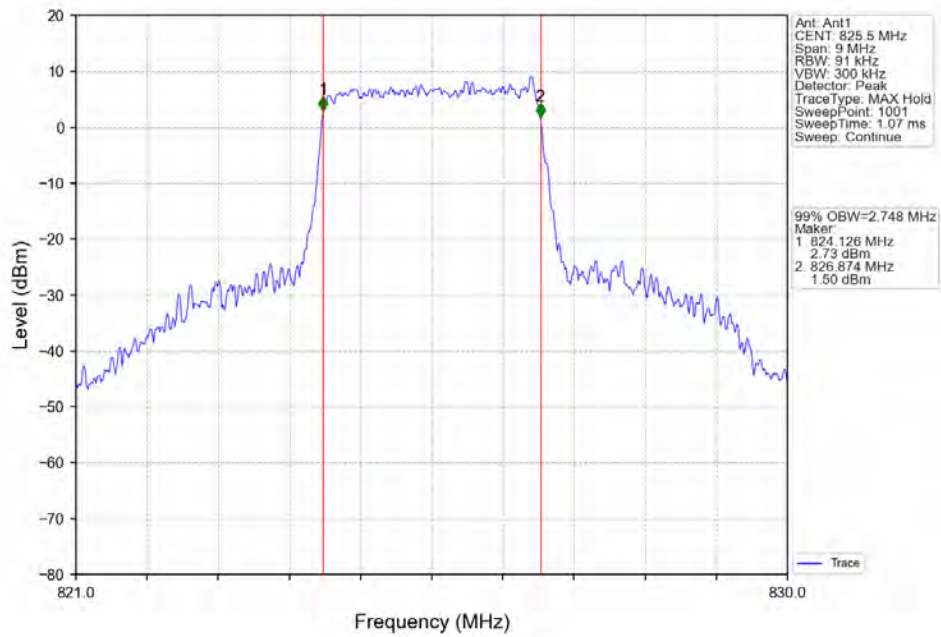
Band5 3MHz 16QAM MCH 836.5MHz RB 15 0 NTNV



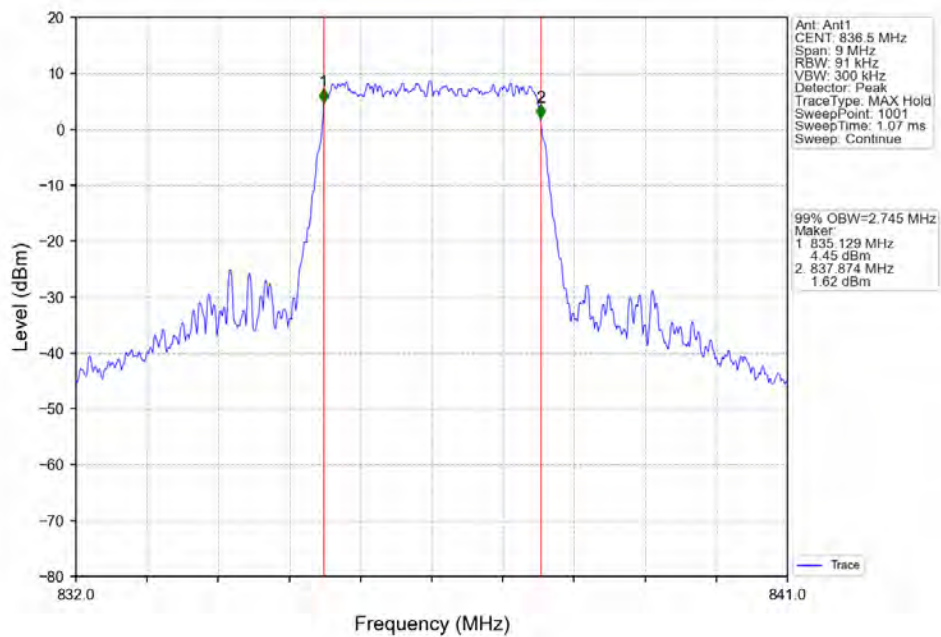
Band5 3MHz 16QAM HCH 847.5MHz RB 15 0 NTNV



Band5 3MHz 64QAM LCH 825.5MHz RB 15 0 NTV

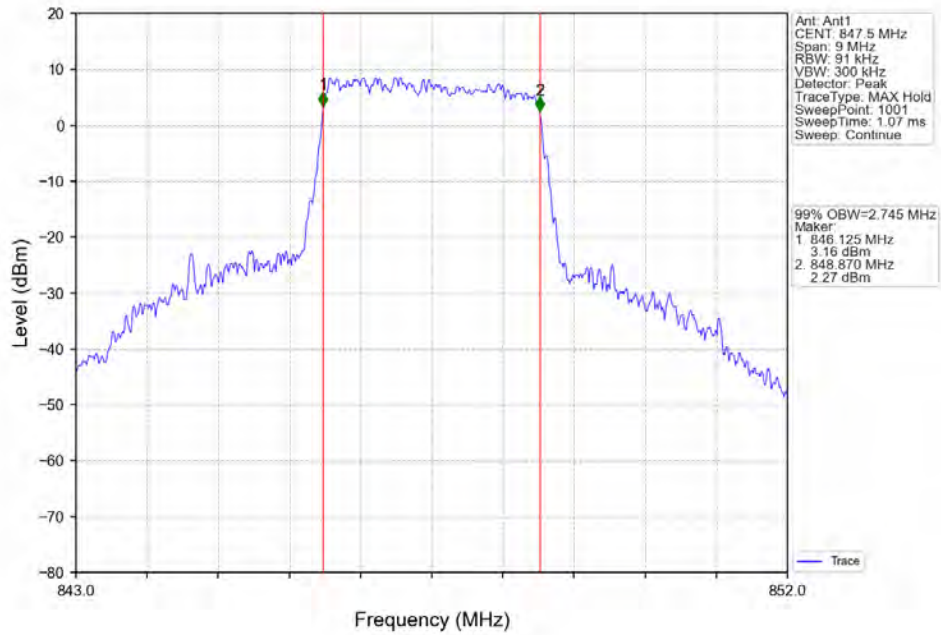


Band5 3MHz 64QAM MCH 836.5MHz RB 15 0 NTV

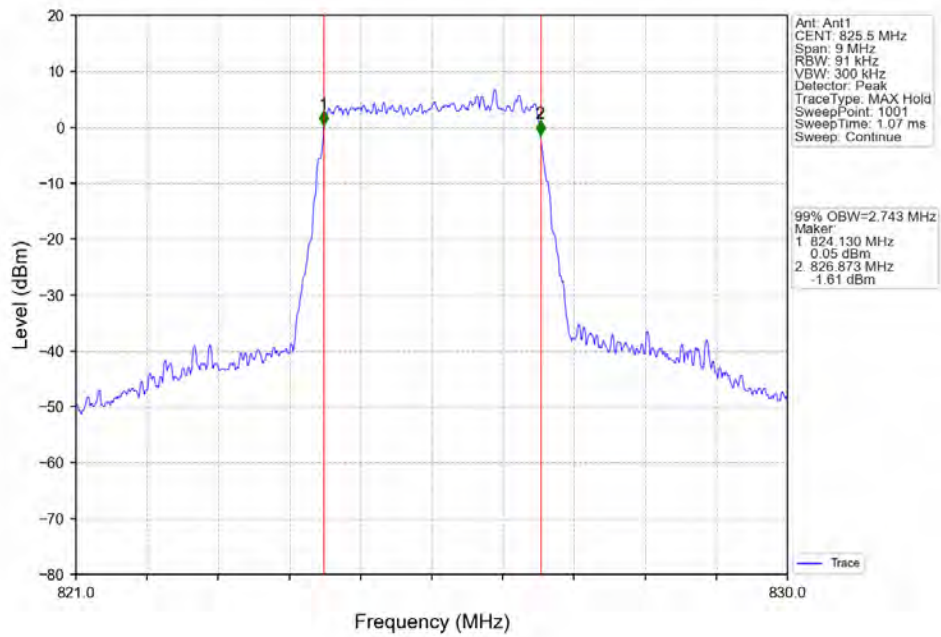




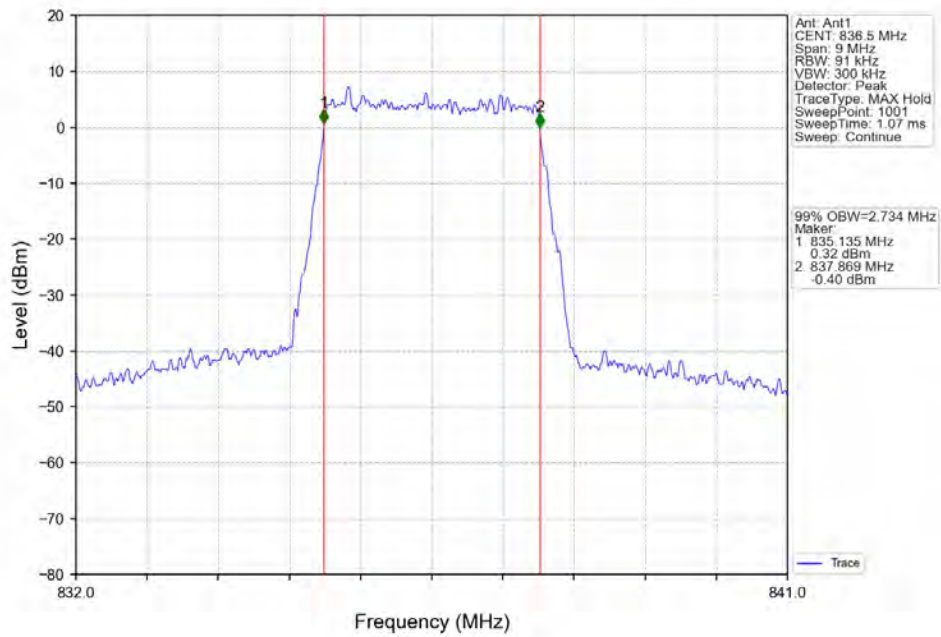
Band5 3MHz 64QAM HCH 847.5MHz RB 15 0 NTNV



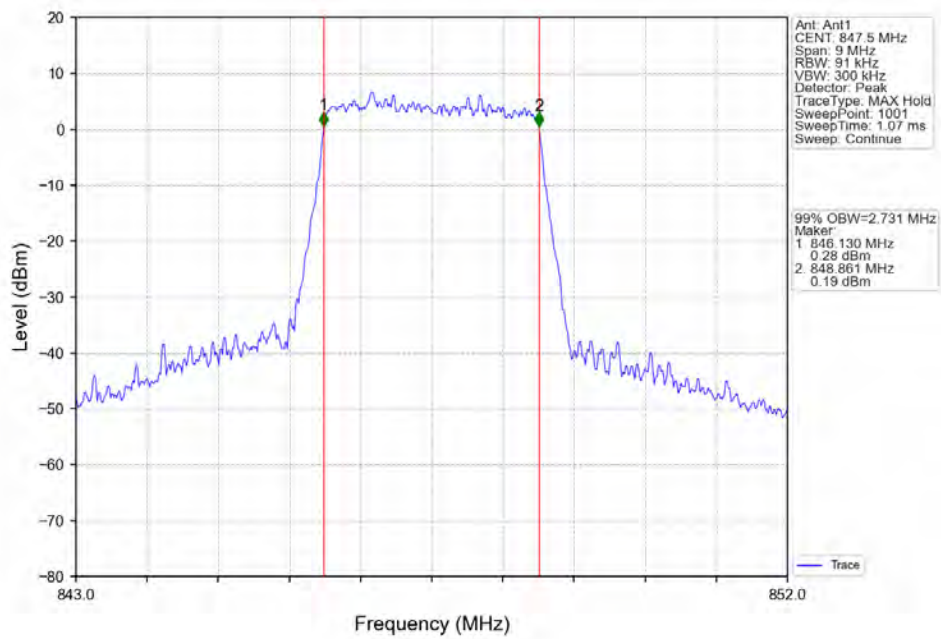
Band5 3MHz 256QAM LCH 825.5MHz RB 15 0 NTNV



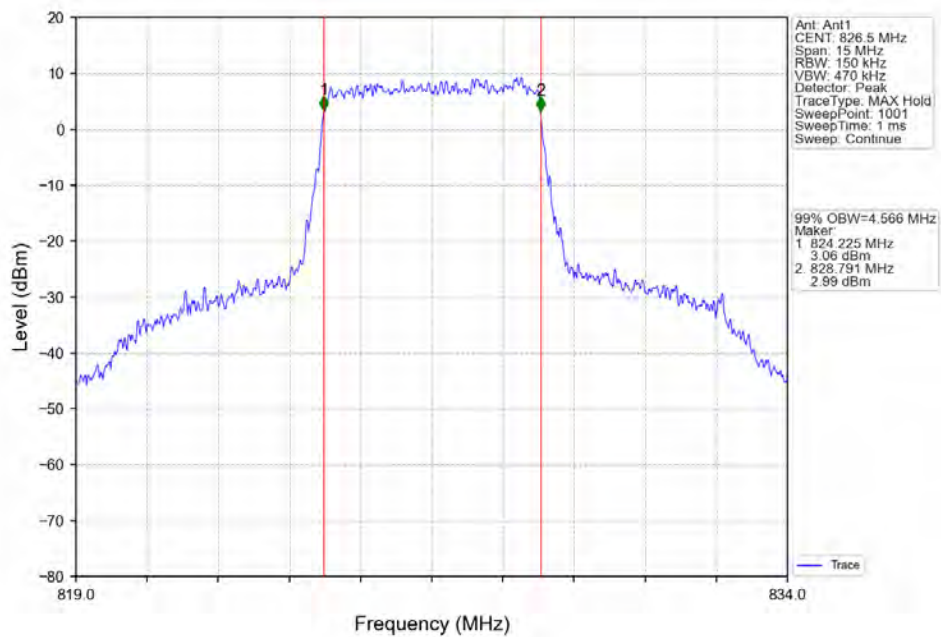
Band5 3MHz 256QAM MCH 836.5MHz RB 15 0 NTNV



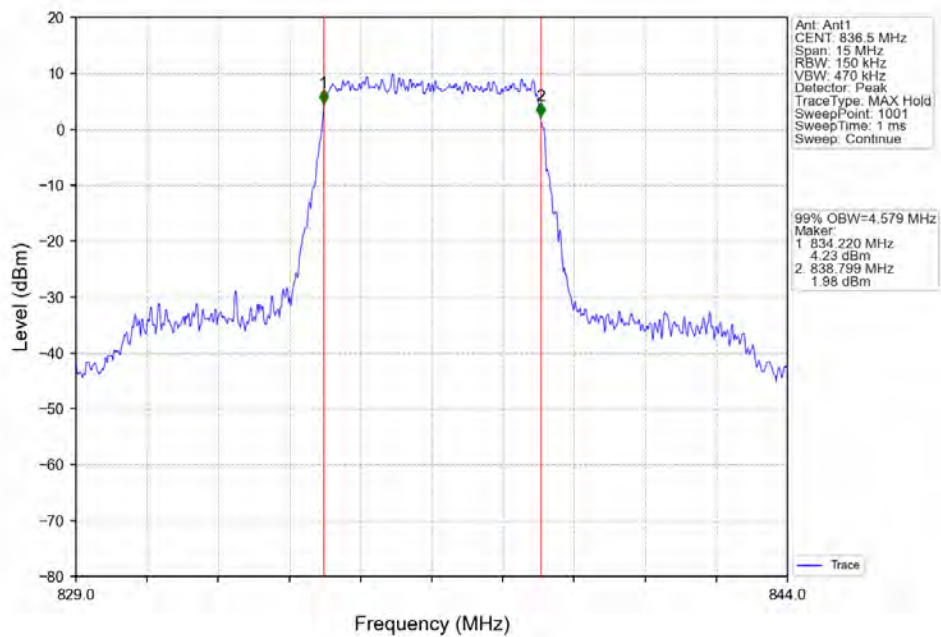
Band5 3MHz 256QAM HCH 847.5MHz RB 15 0 NTNV



Band5 5MHz QPSK LCH 826.5MHz RB 25 0 NTNV

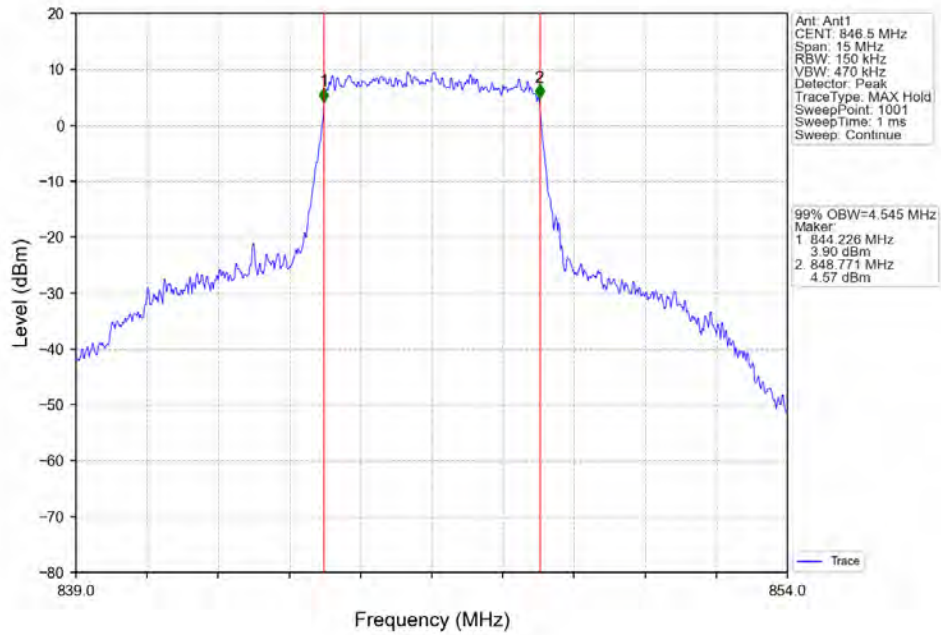


Band5 5MHz QPSK MCH 836.5MHz RB 25 0 NTNV

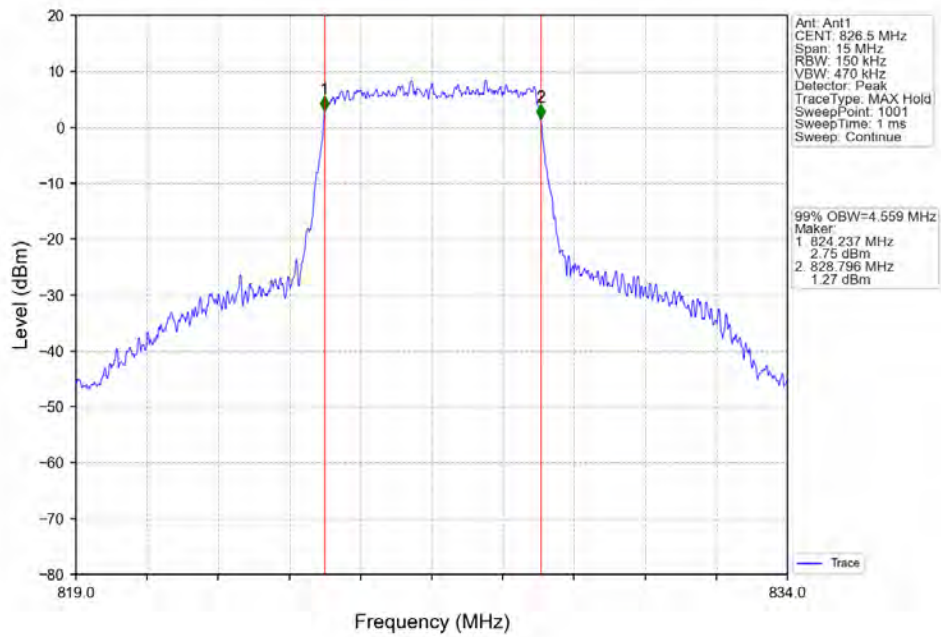




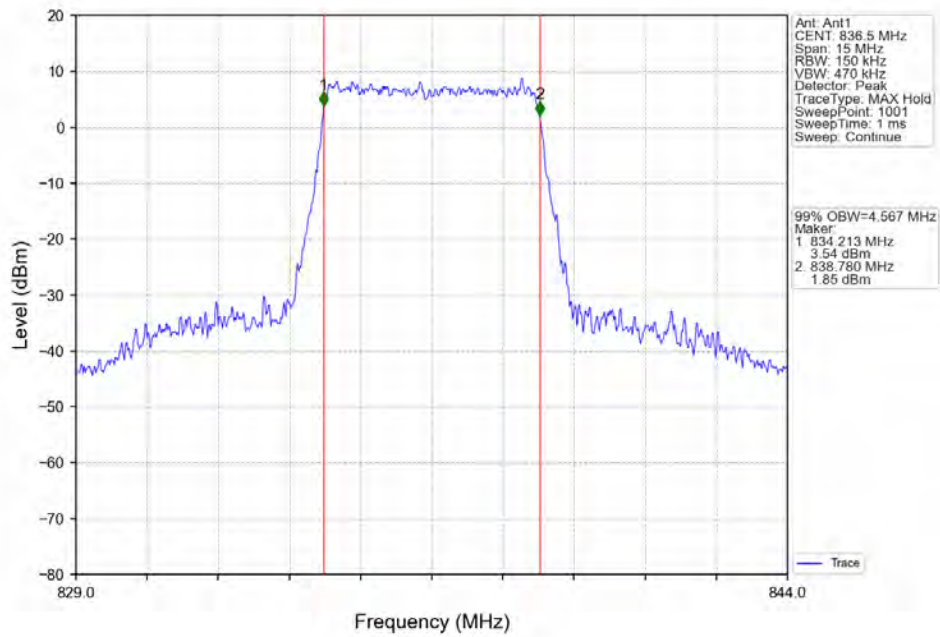
Band5 5MHz QPSK HCH 846.5MHz RB 25 0 NTNV



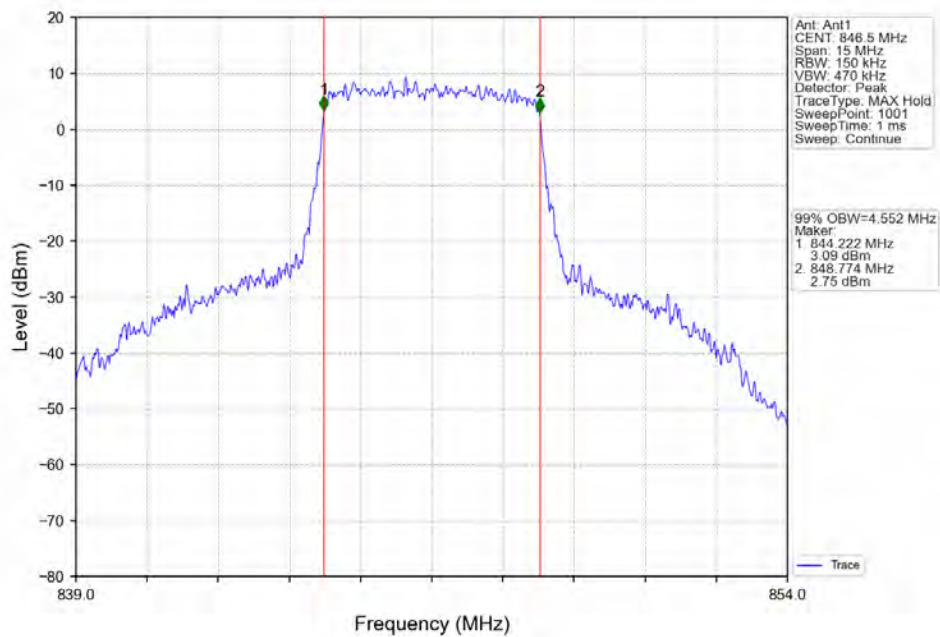
Band5 5MHz 16QAM LCH 826.5MHz RB 25 0 NTNV



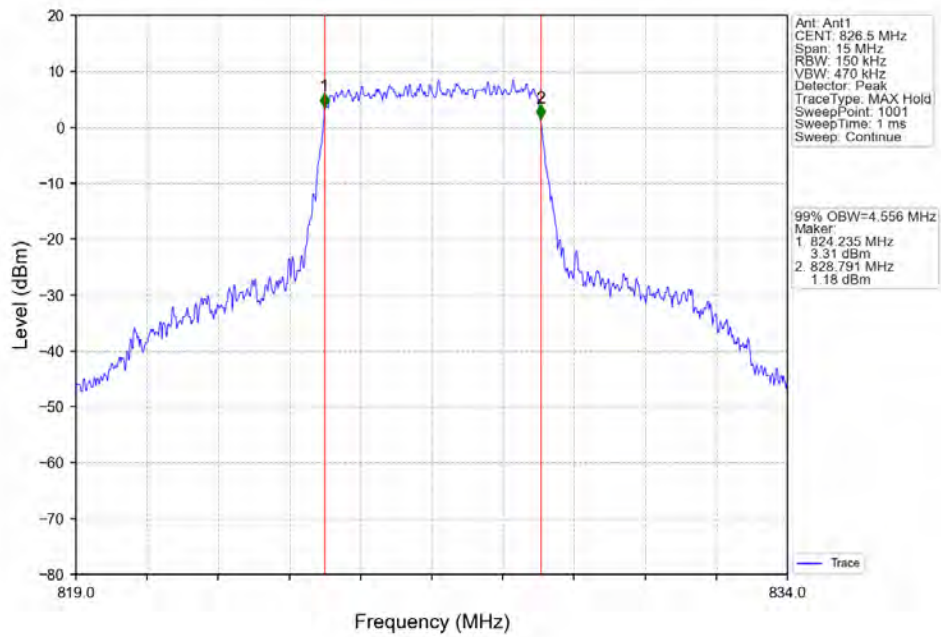
Band5 5MHz 16QAM MCH 836.5MHz RB 25 0 NTNV



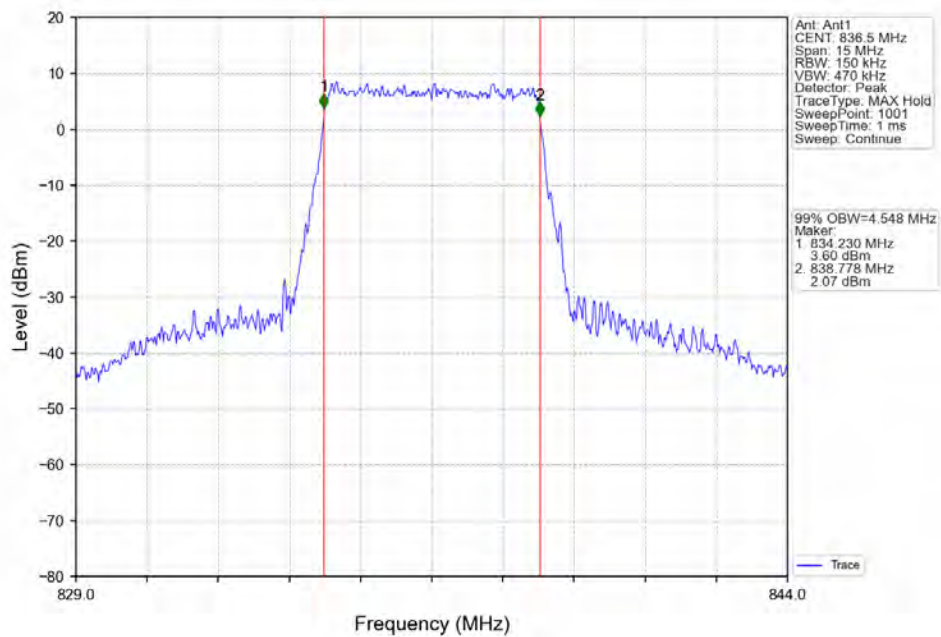
Band5 5MHz 16QAM HCH 846.5MHz RB 25 0 NTNV



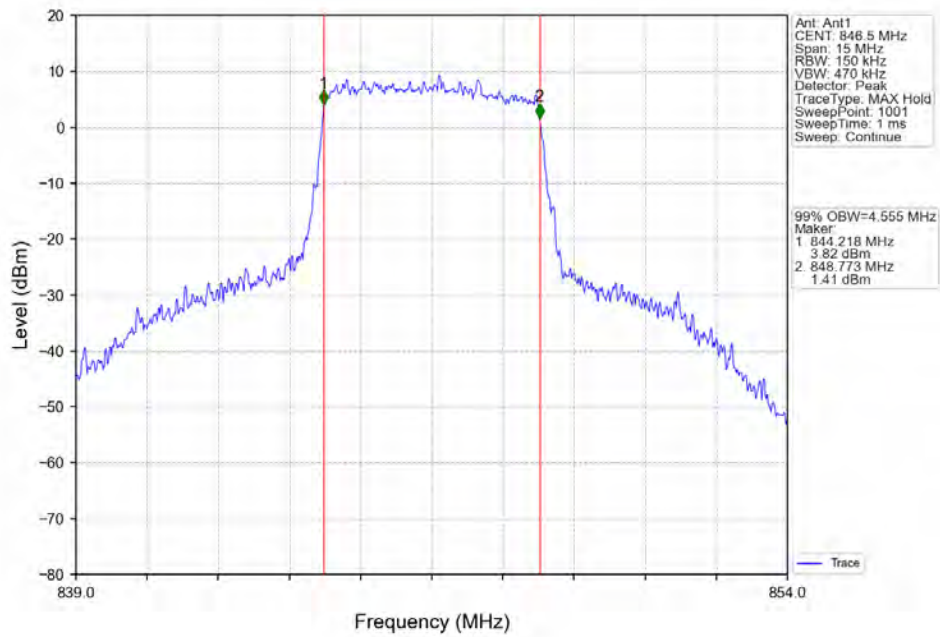
Band5 5MHz 64QAM LCH 826.5MHz RB 25 0 NTNV



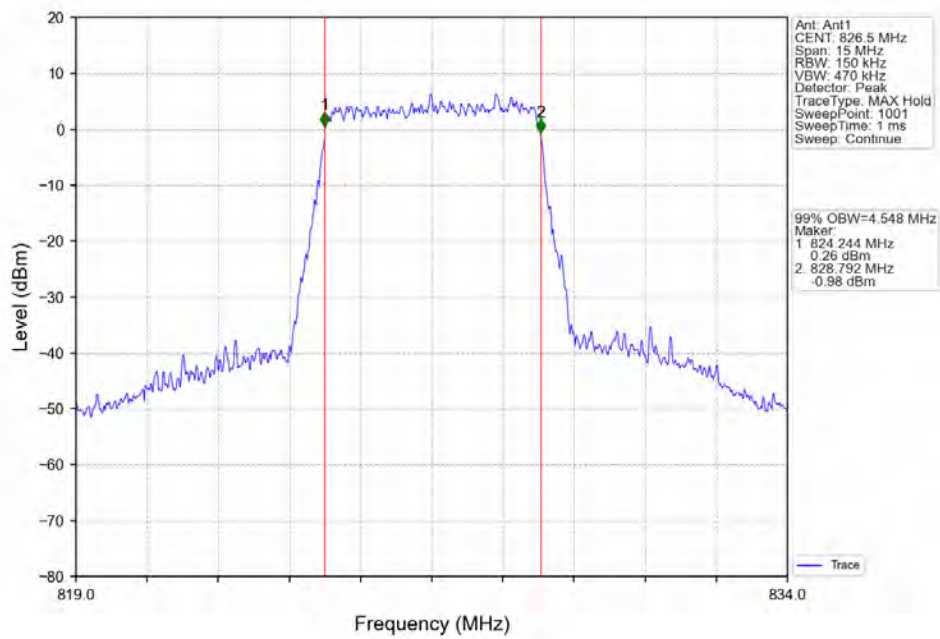
Band5 5MHz 64QAM MCH 836.5MHz RB 25 0 NTNV



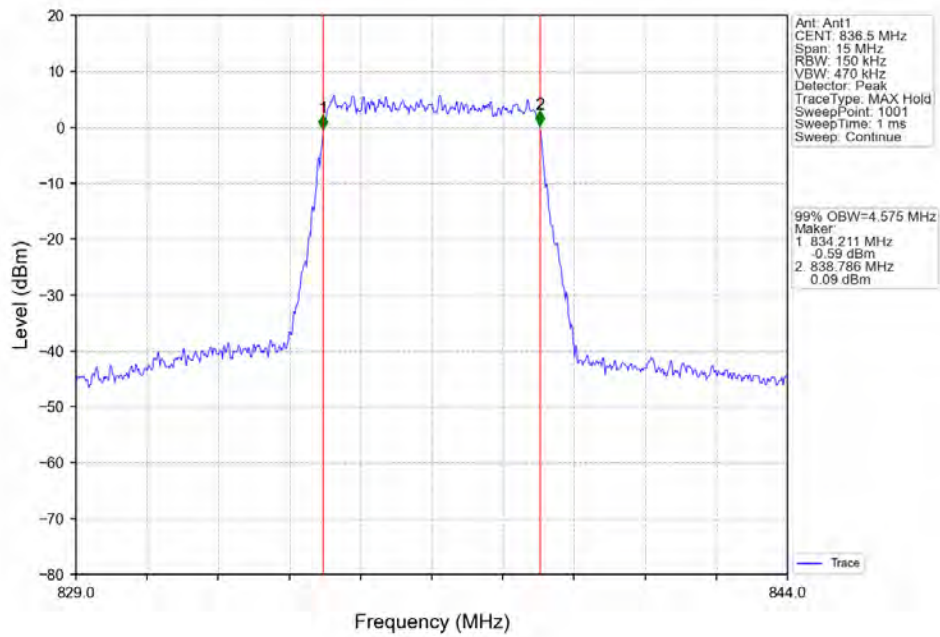
Band5 5MHz 64QAM HCH 846.5MHz RB 25 0 NTNV



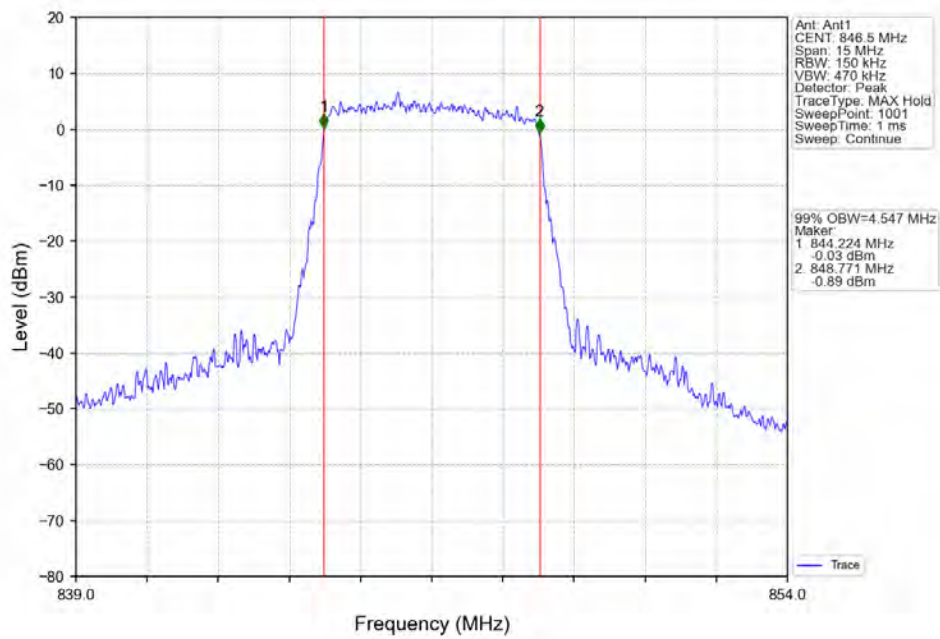
Band5 5MHz 256QAM LCH 826.5MHz RB 25 0 NTNV



Band5 5MHz 256QAM MCH 836.5MHz RB 25 0 NTNV

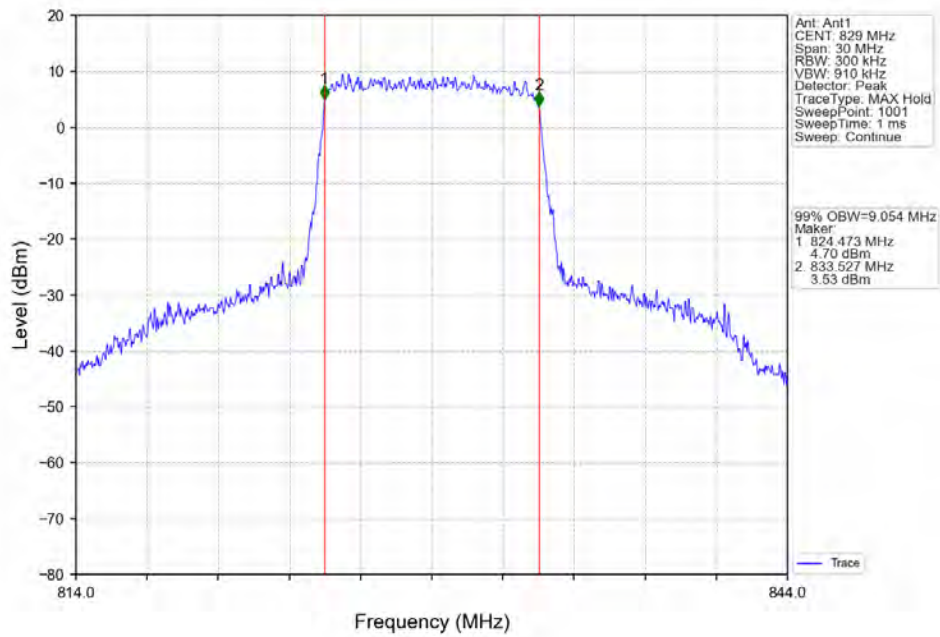


Band5 5MHz 256QAM HCH 846.5MHz RB 25 0 NTNV

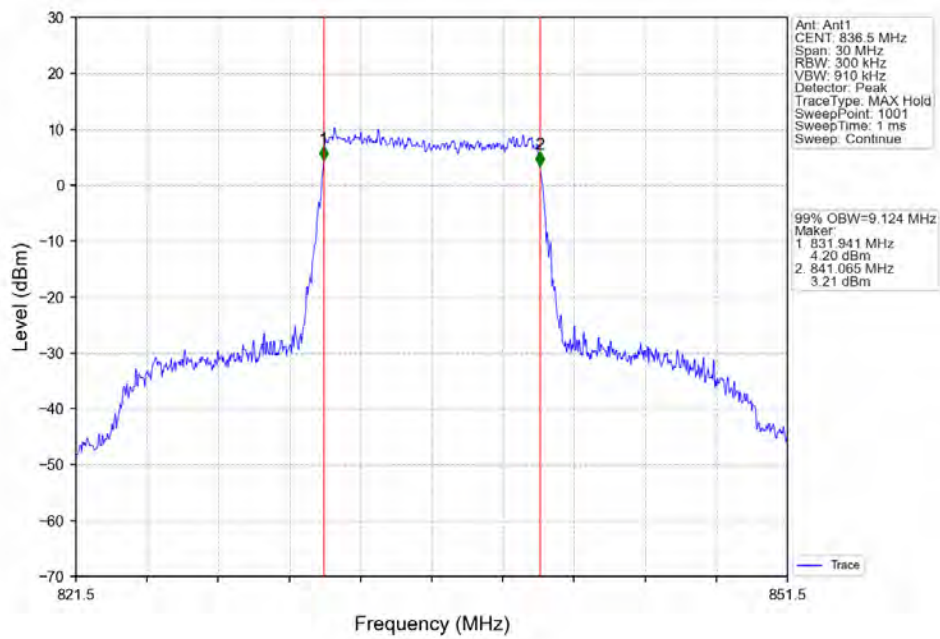




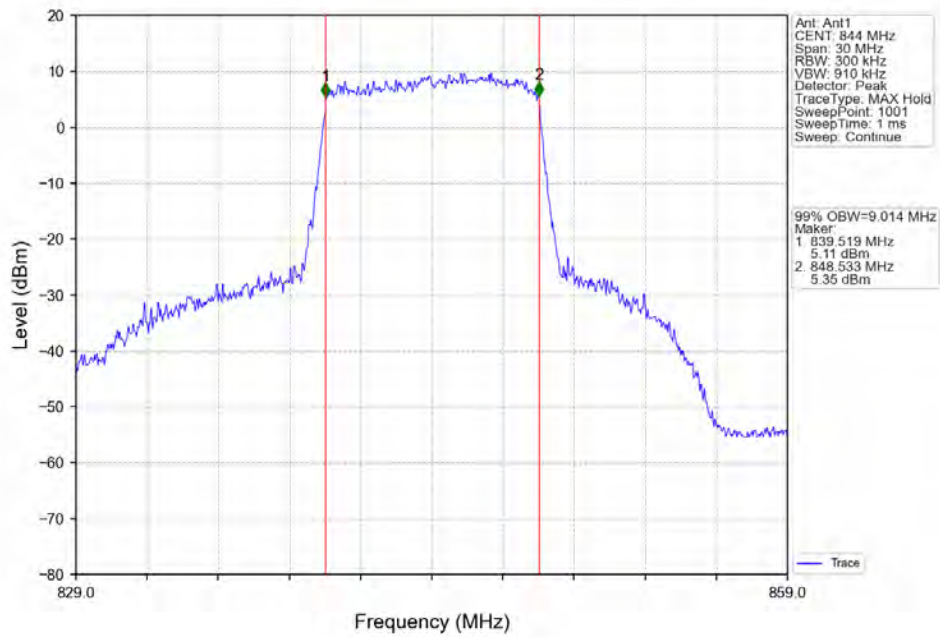
Band5 10MHz QPSK LCH 829MHz RB 50 0 NTNV



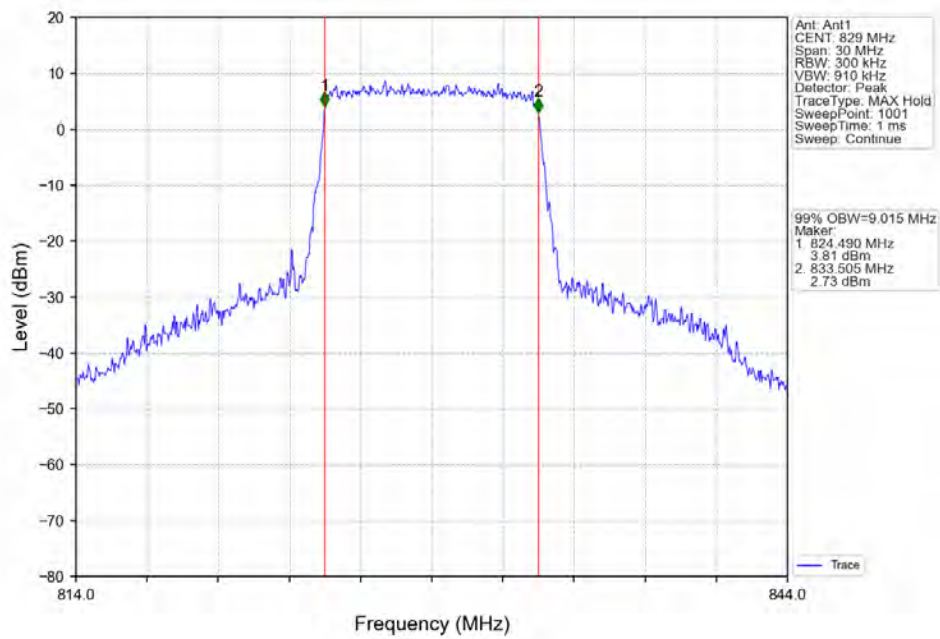
Band5 10MHz QPSK MCH 836.5MHz RB 50 0 NTNV



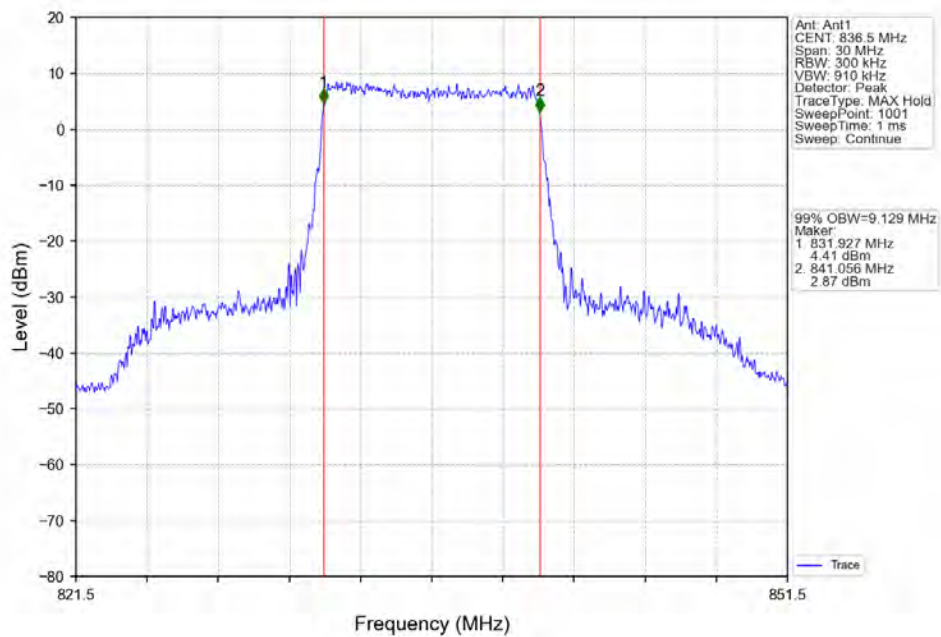
Band5 10MHz QPSK HCH 844MHz RB 50 0 NTNV



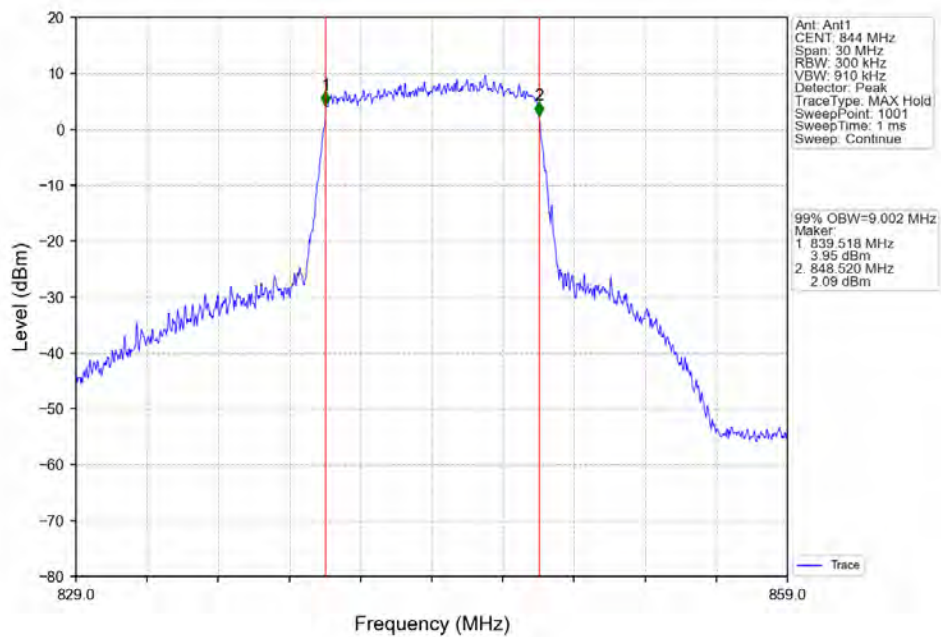
Band5 10MHz 16QAM LCH 829MHz RB 50 0 NTNV



Band5 10MHz 16QAM MCH 836.5MHz RB 50 0 NTNV

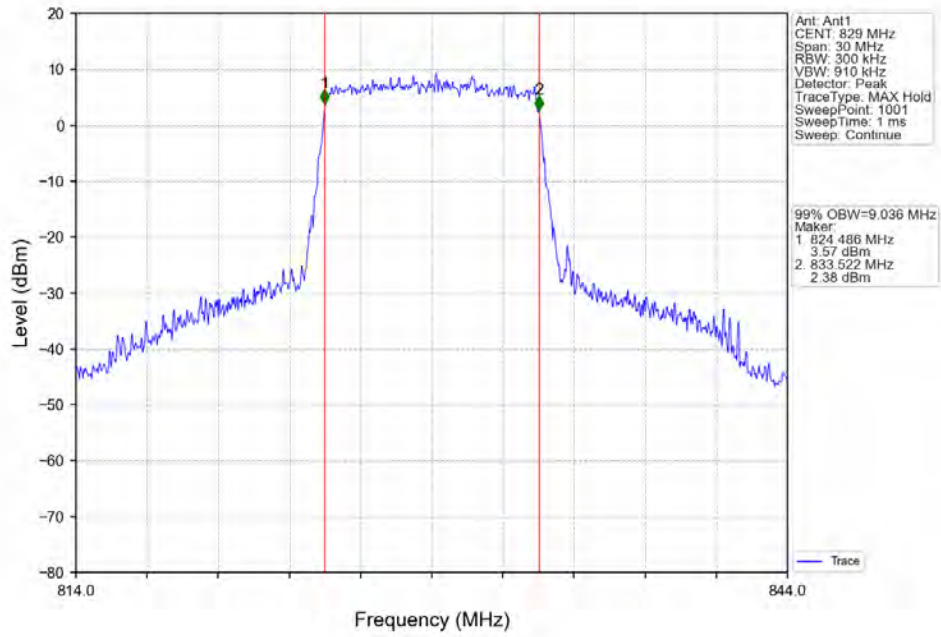


Band5 10MHz 16QAM HCH 844MHz RB 50 0 NTNV

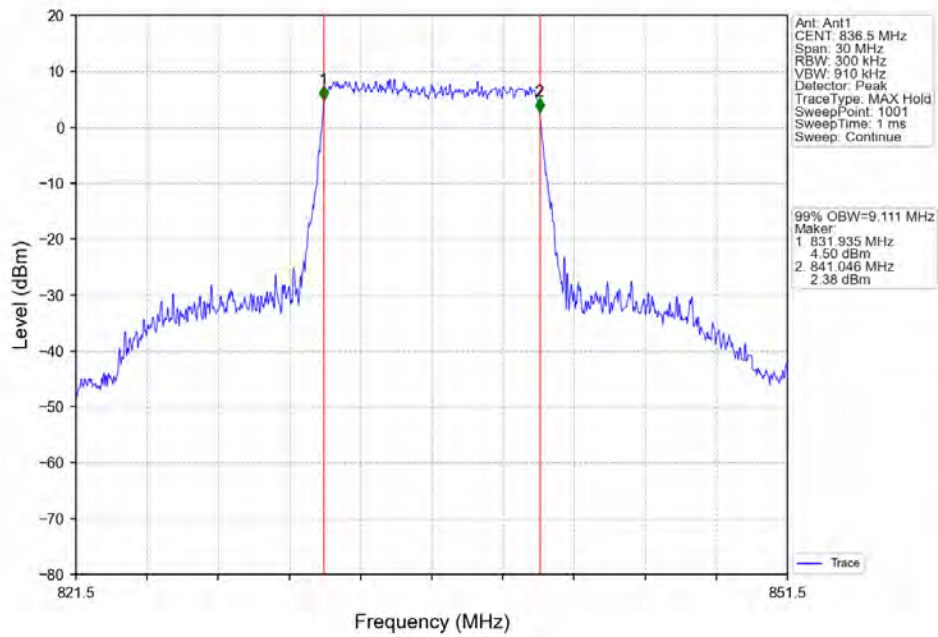




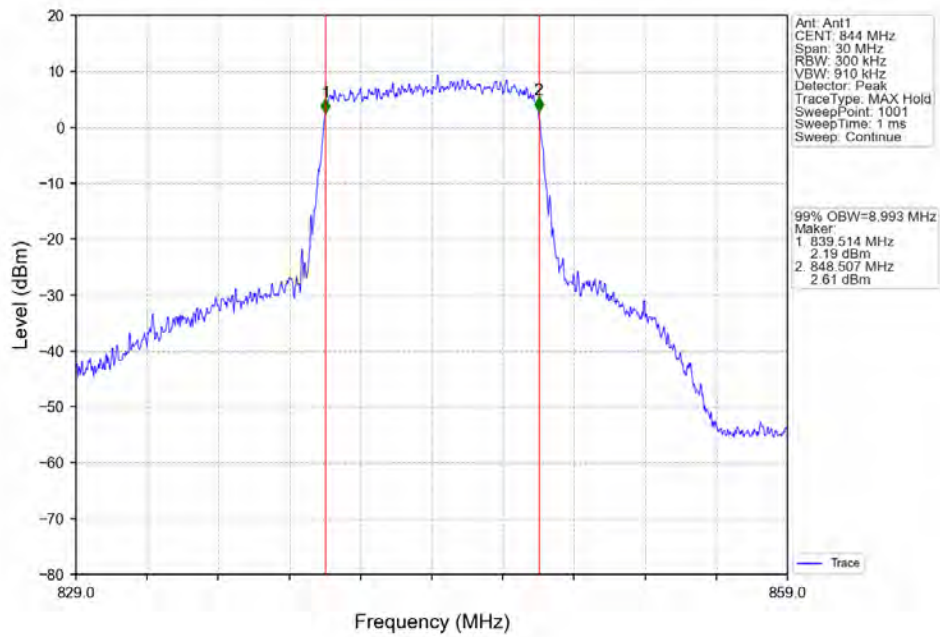
Band5 10MHz 64QAM LCH 829MHz RB 50 0 NTN



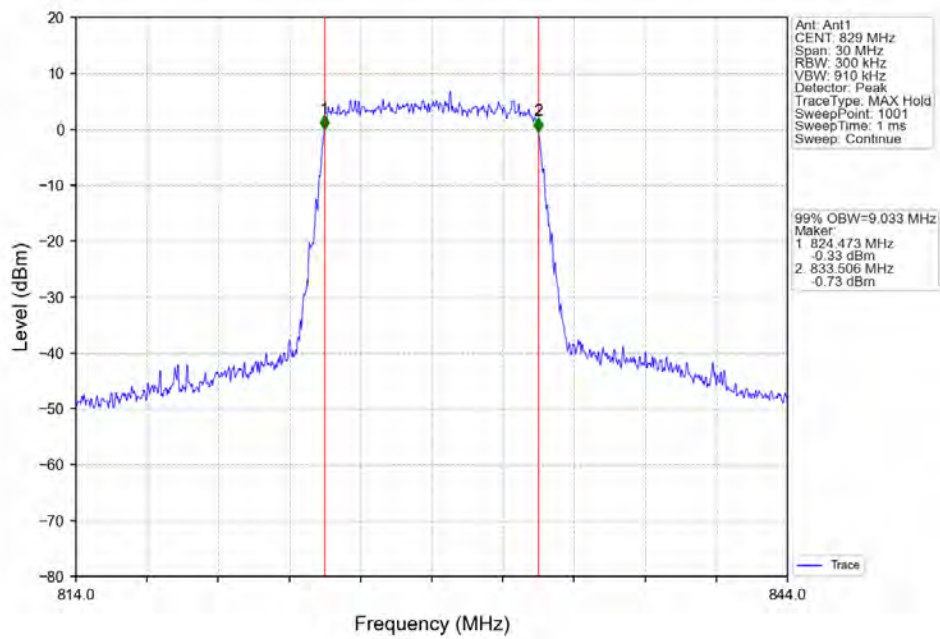
Band5 10MHz 64QAM MCH 836.5MHz RB 50 0 NTN



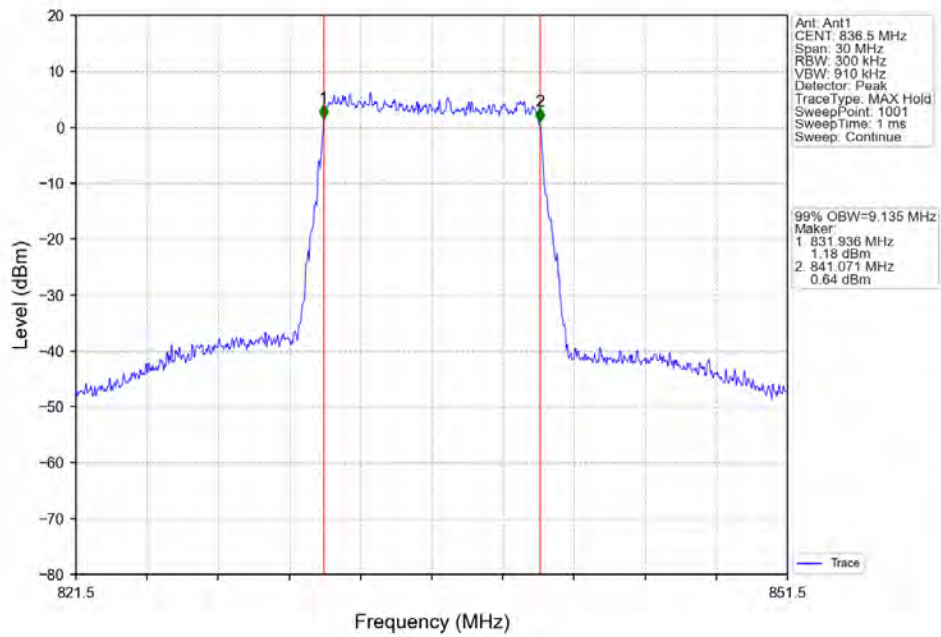
Band5 10MHz 64QAM HCH 844MHz RB 50 0 NTNV



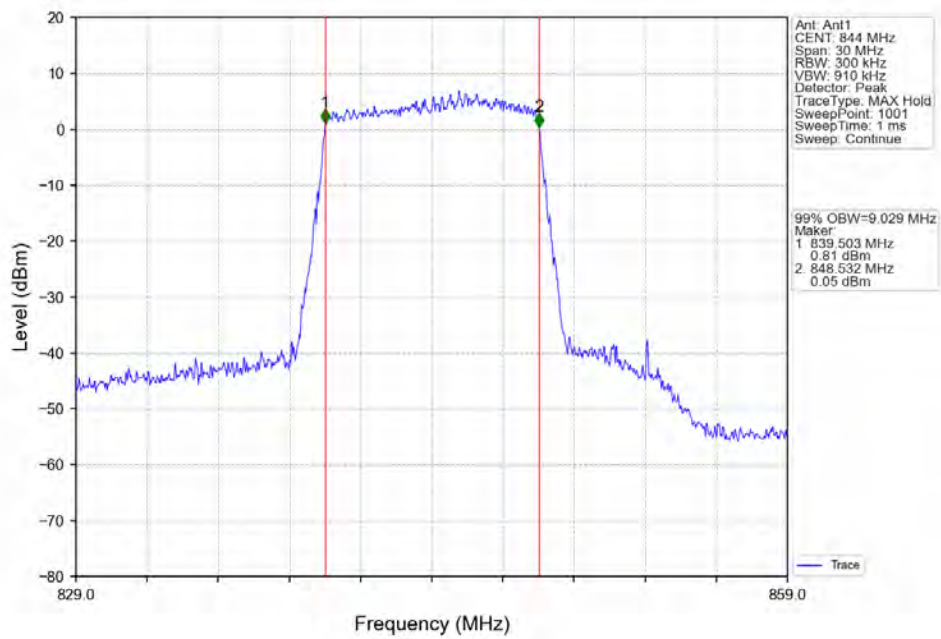
Band5 10MHz 256QAM LCH 829MHz RB 50 0 NTNV



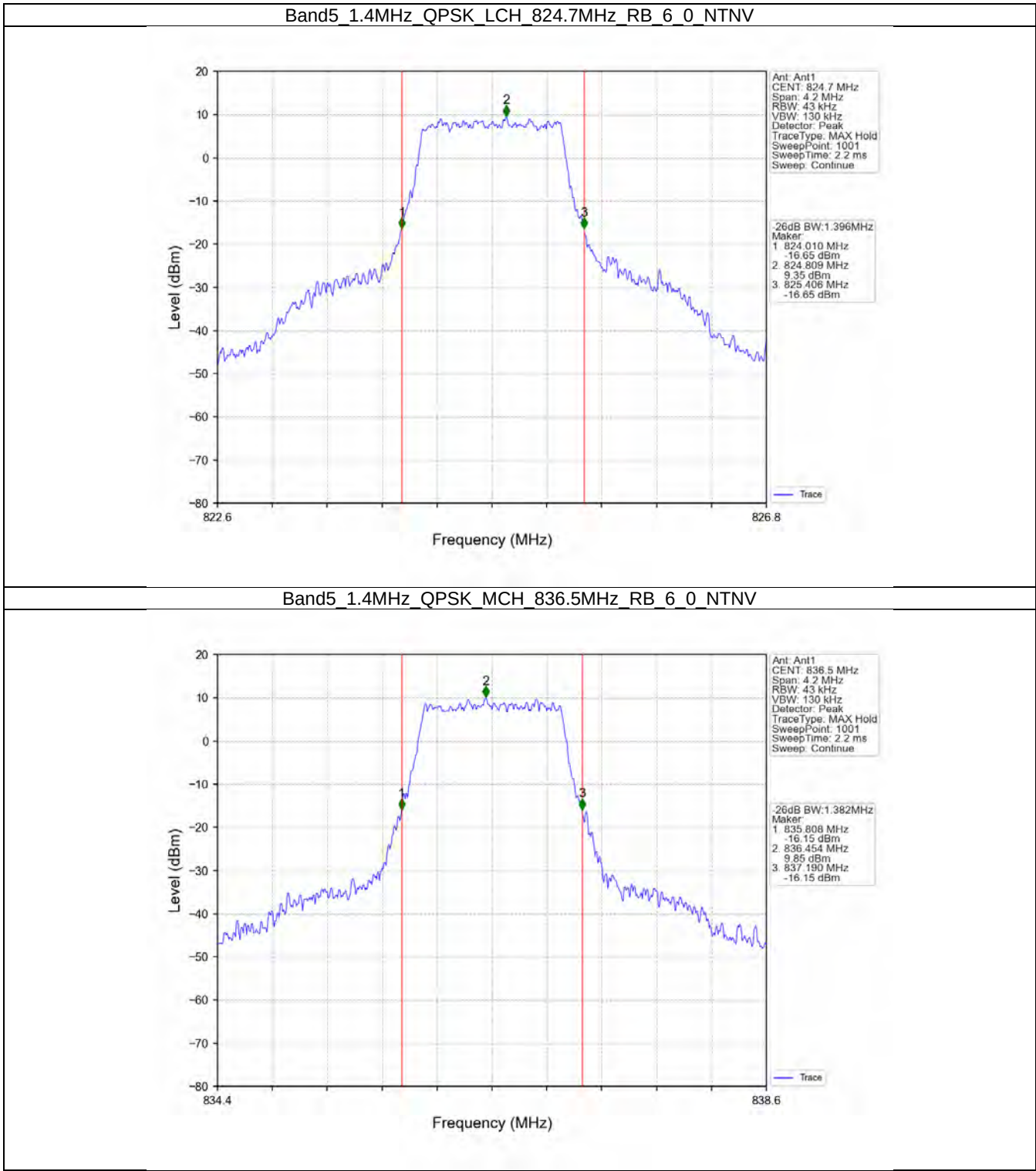
Band5 10MHz 256QAM MCH 836.5MHz RB 50 0 NTN



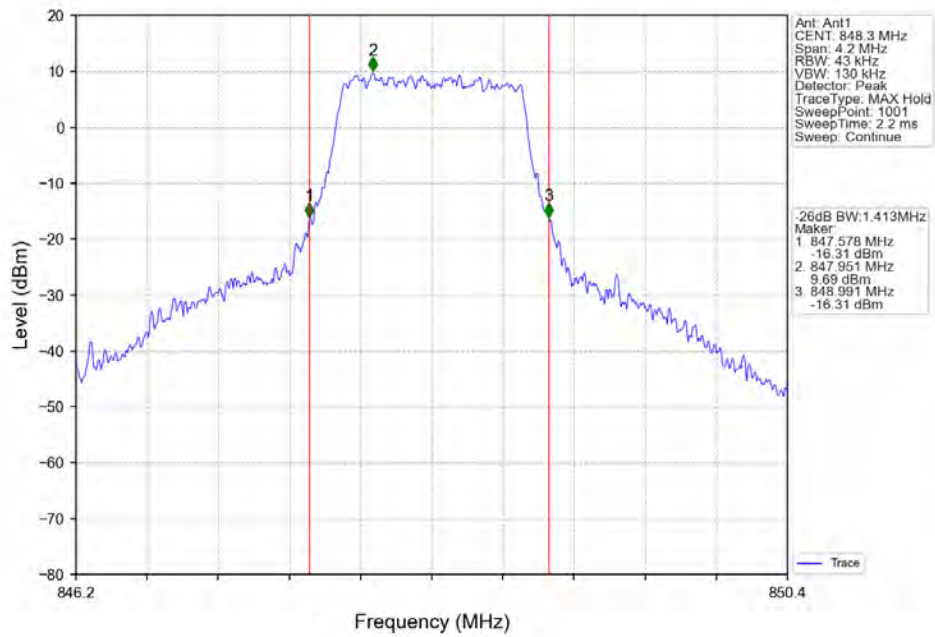
Band5 10MHz 256QAM HCH 844MHz RB 50 0 NTN



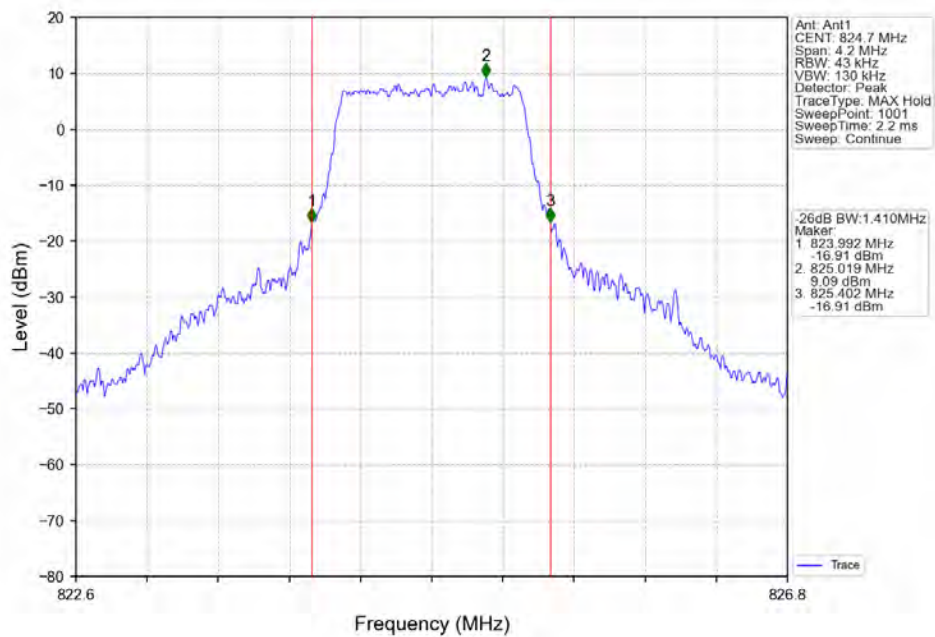
3.2.2 Band5\_XDB



Band5 1.4MHz QPSK HCH 848.3MHz RB 6 0 NTN

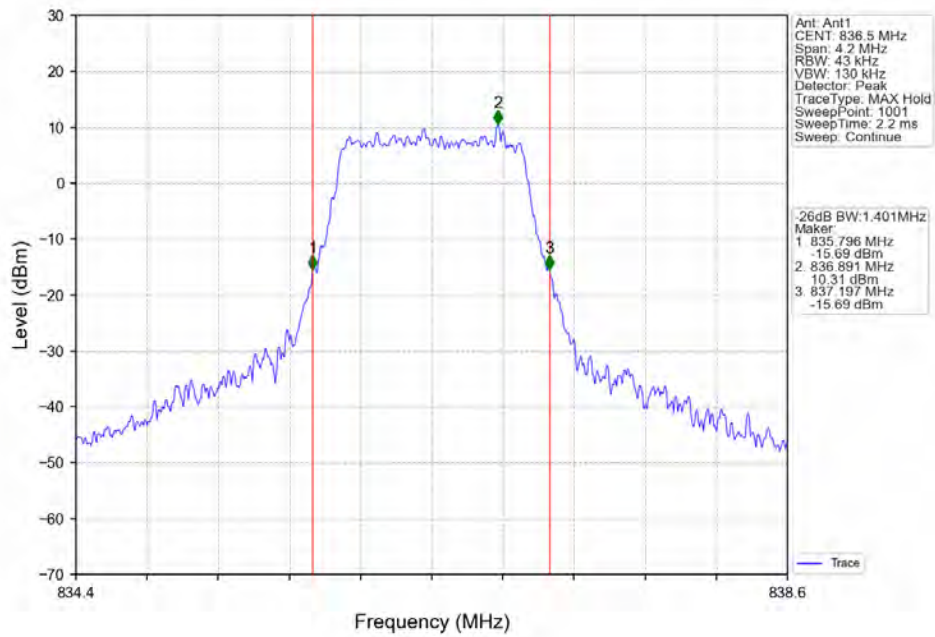


Band5 1.4MHz 16QAM LCH 824.7MHz RB 6 0 NTN

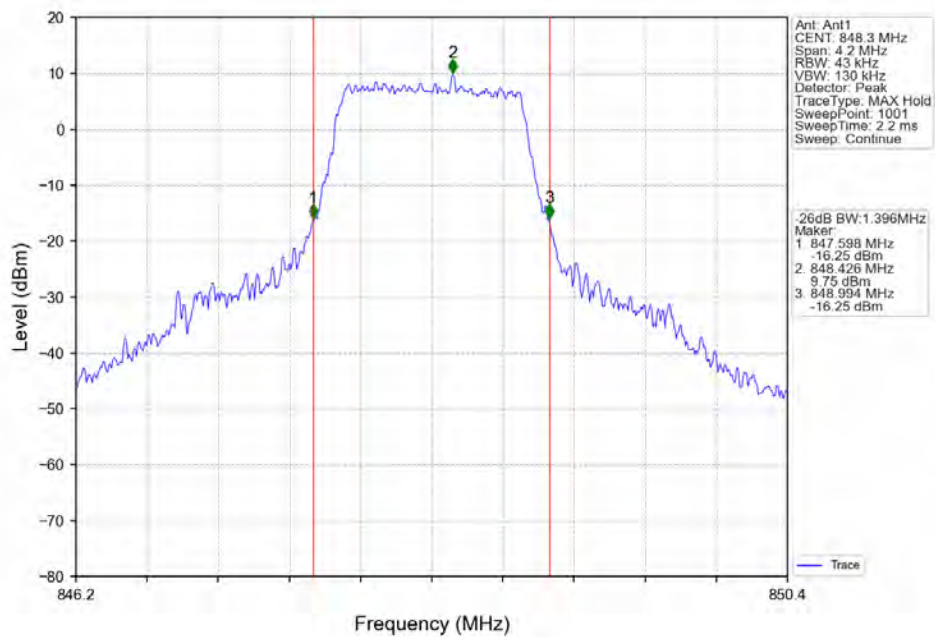




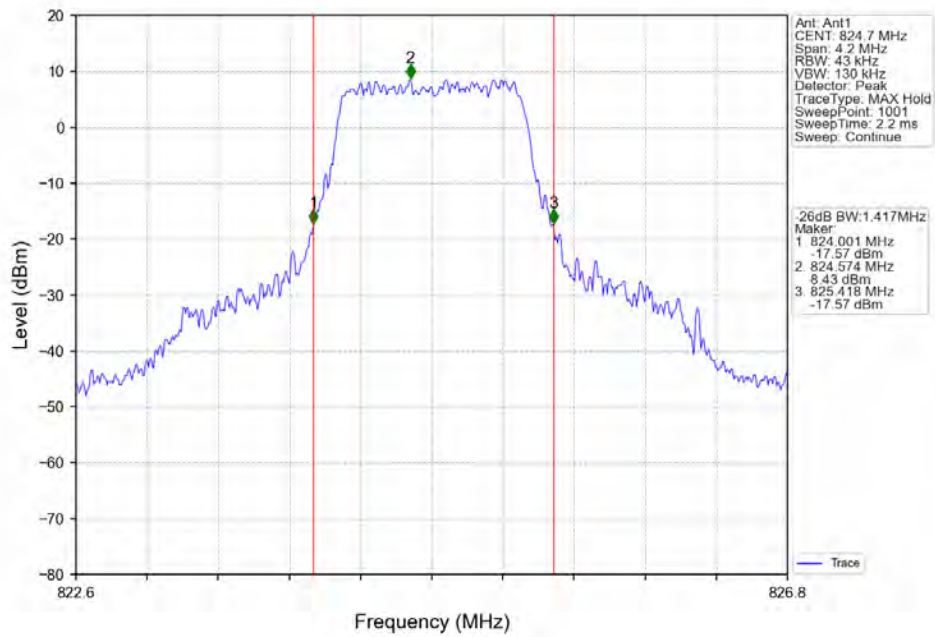
Band5 1.4MHz 16QAM MCH 836.5MHz RB 6 0 NTNV



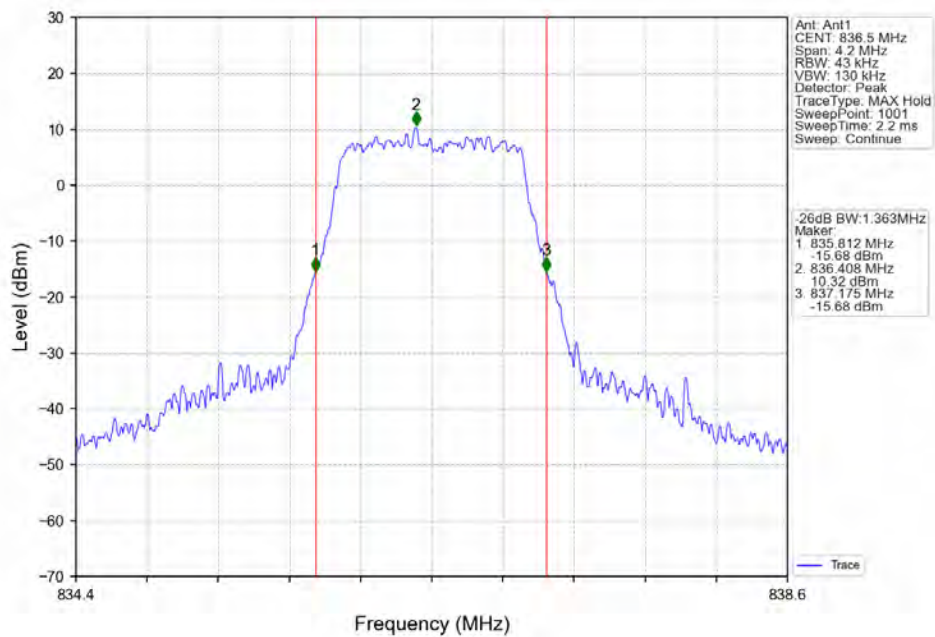
Band5 1.4MHz 16QAM HCH 848.3MHz RB 6 0 NTNV



Band5 1.4MHz 64QAM LCH 824.7MHz RB 6 0 NTNV

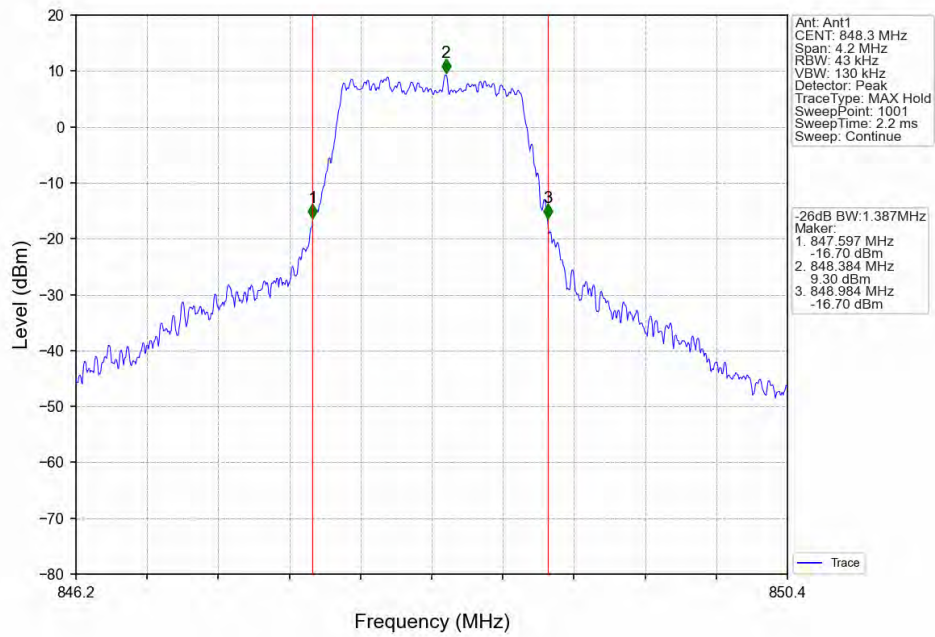


Band5 1.4MHz 64QAM MCH 836.5MHz RB 6 0 NTNV

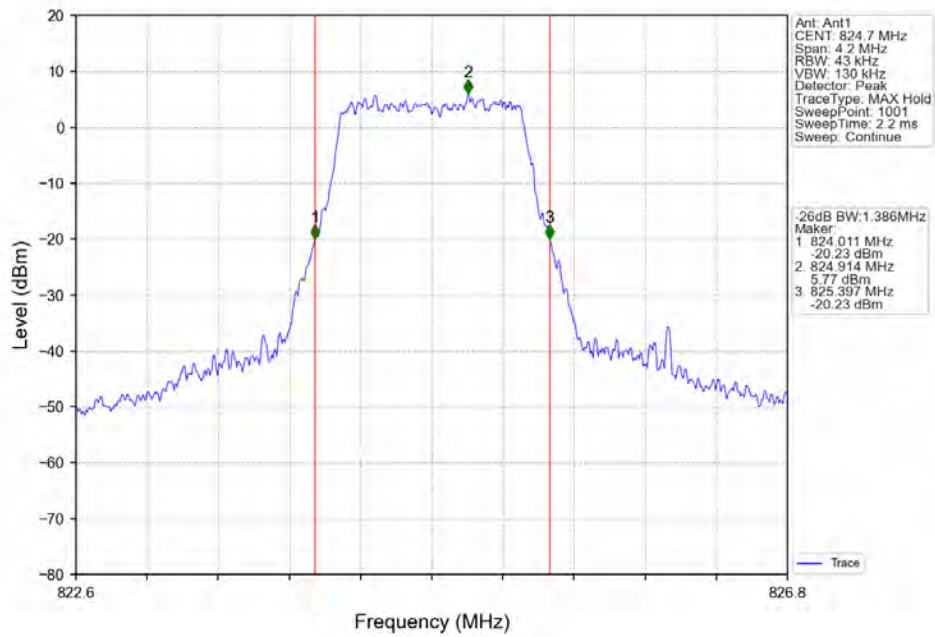




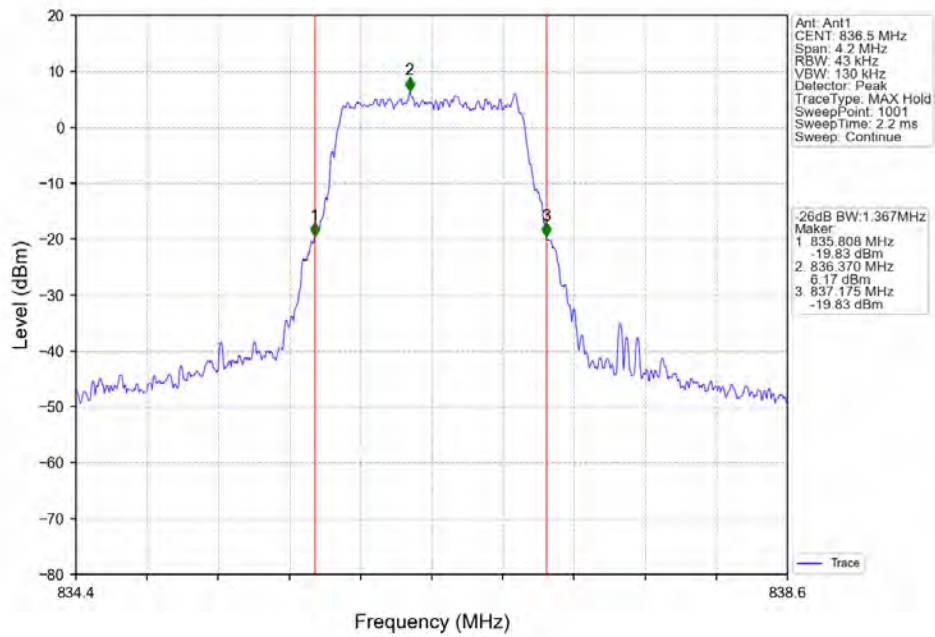
Band5 1.4MHz 64QAM HCH 848.3MHz RB 6 0 NTNV



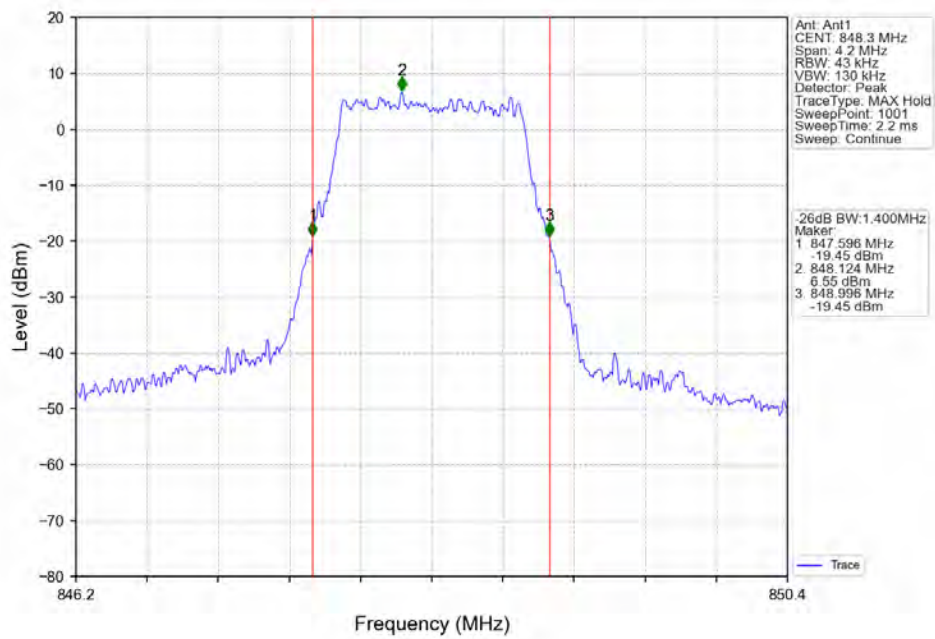
Band5 1.4MHz 256QAM LCH 824.7MHz RB 6 0 NTNV



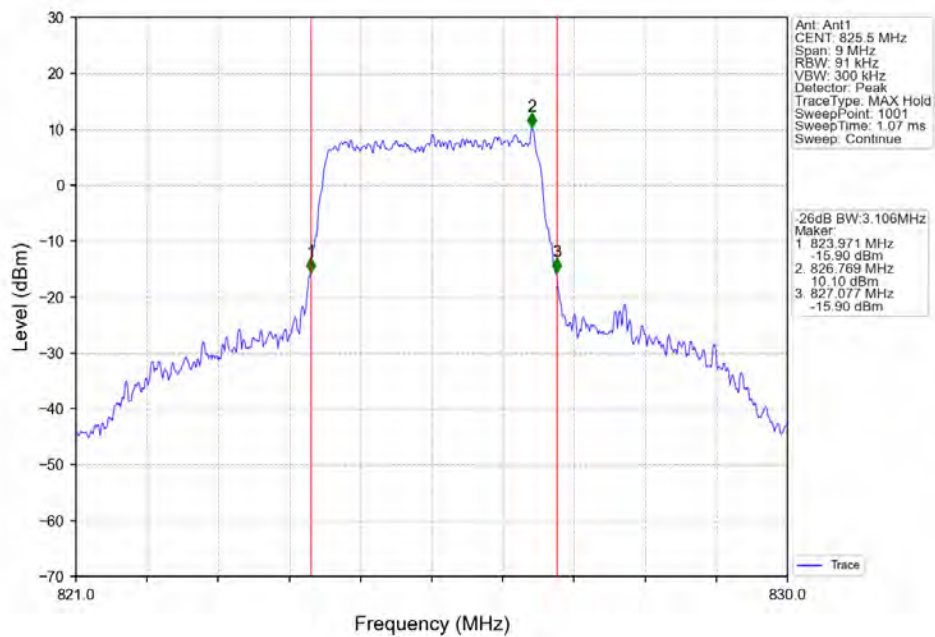
Band5 1.4MHz 256QAM MCH 836.5MHz RB 6 0 NTNV



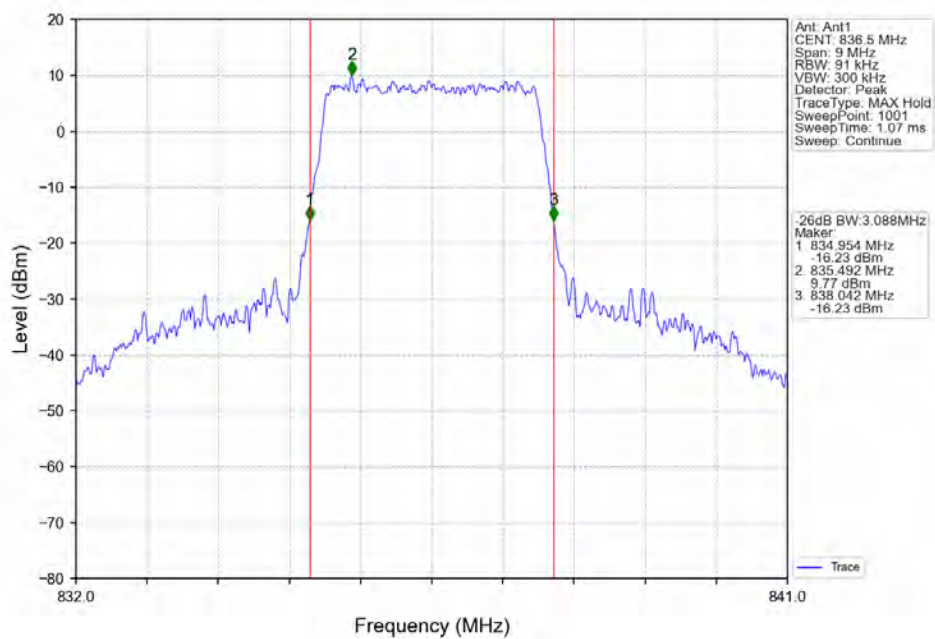
Band5 1.4MHz 256QAM HCH 848.3MHz RB 6 0 NTNV



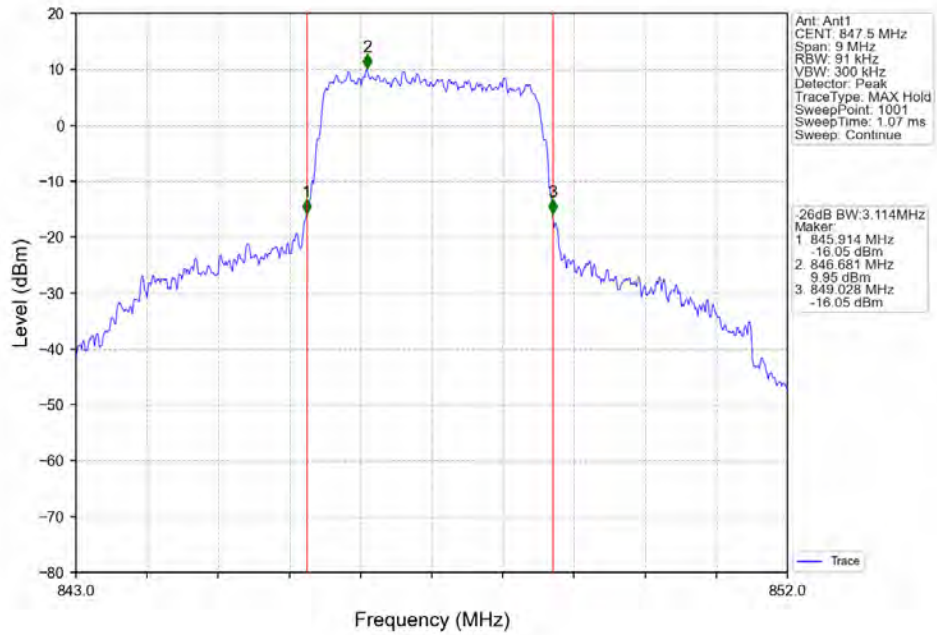
Band5 3MHz QPSK LCH 825.5MHz RB 15 0 NTNV



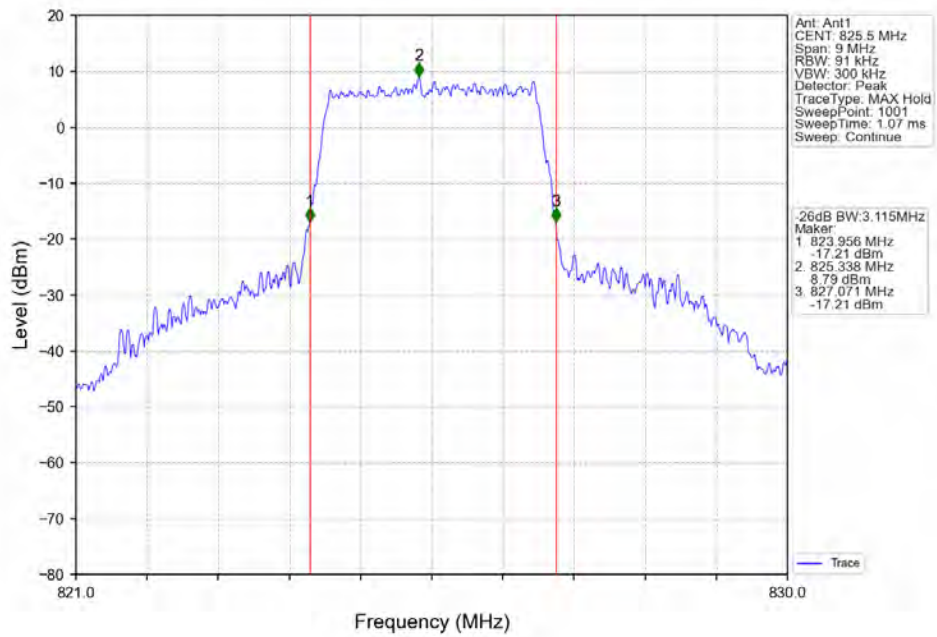
Band5 3MHz QPSK MCH 836.5MHz RB 15 0 NTNV



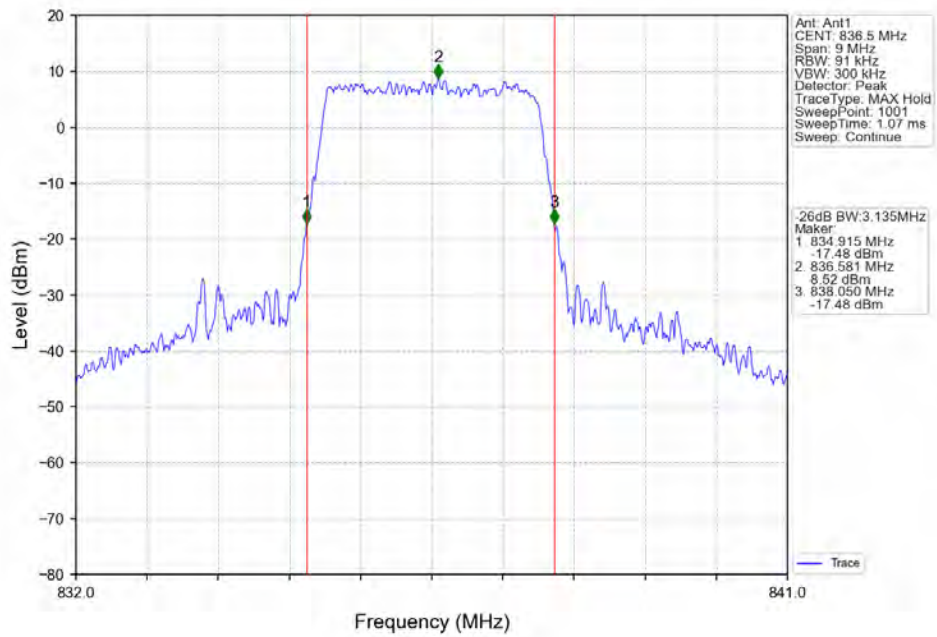
Band5 3MHz QPSK HCH 847.5MHz RB 15 0 NTN



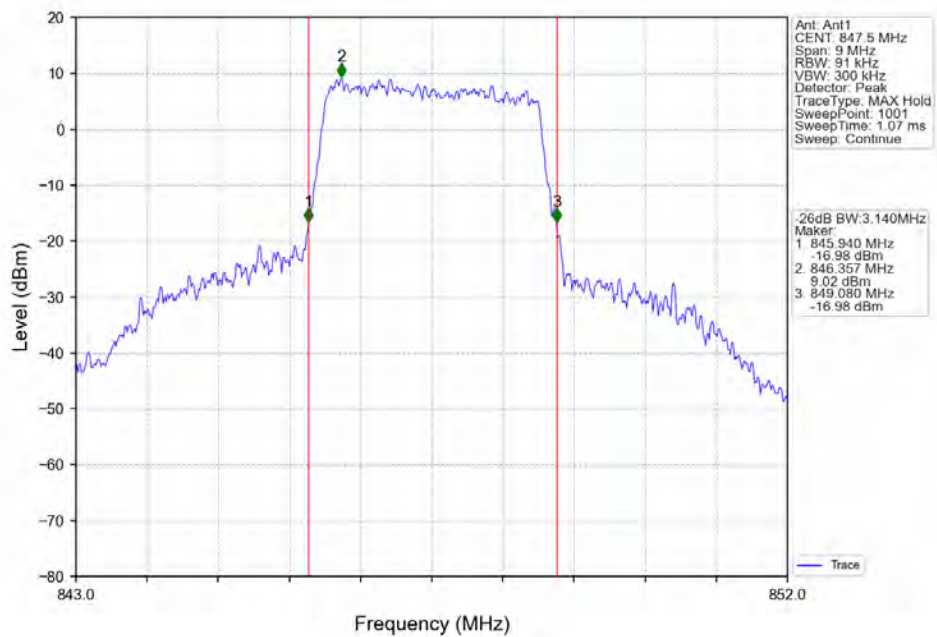
Band5 3MHz 16QAM LCH 825.5MHz RB 15 0 NTN



Band5 3MHz 16QAM MCH 836.5MHz RB 15 0 NTNV

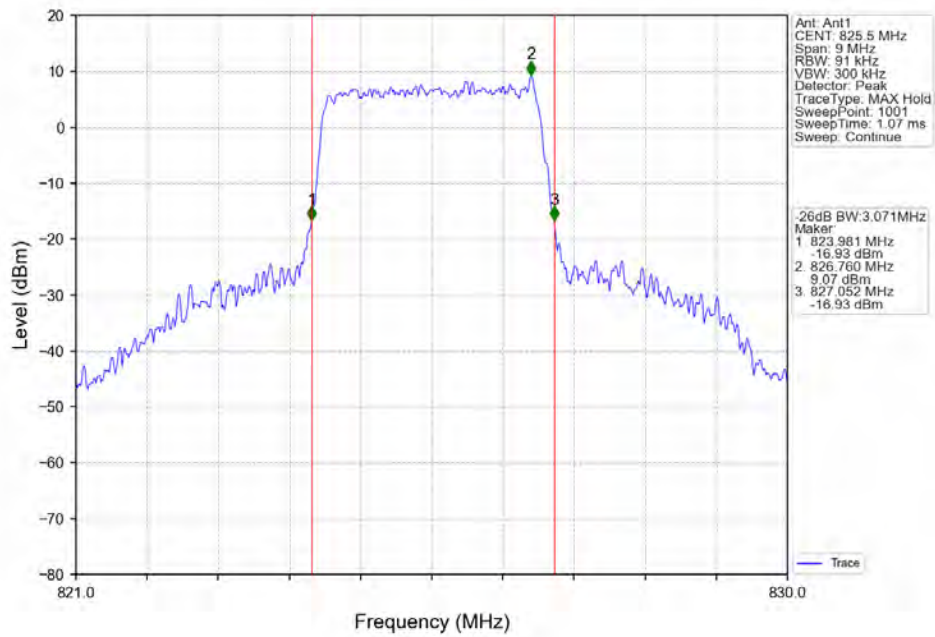


Band5 3MHz 16QAM HCH 847.5MHz RB 15 0 NTNV

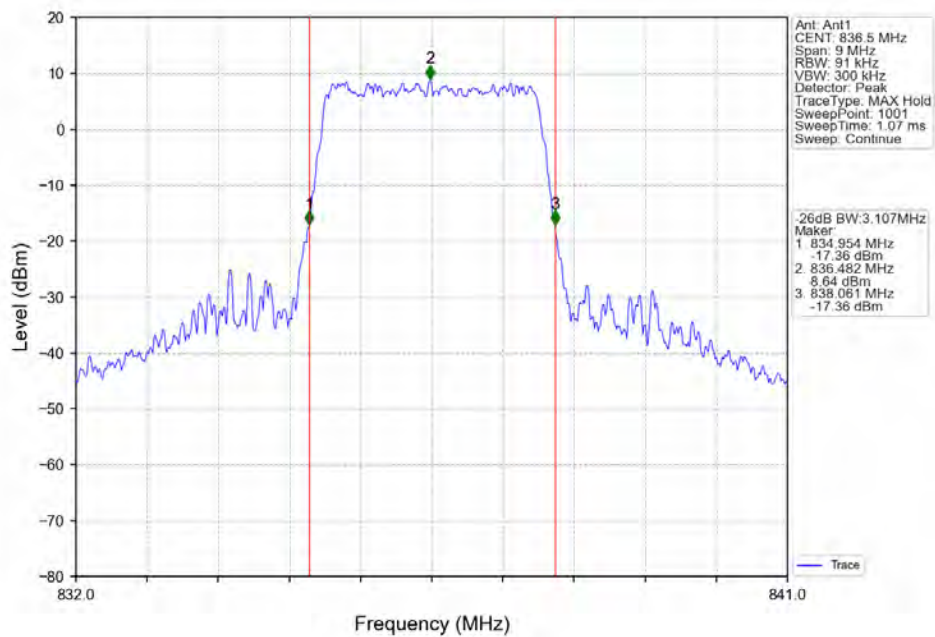




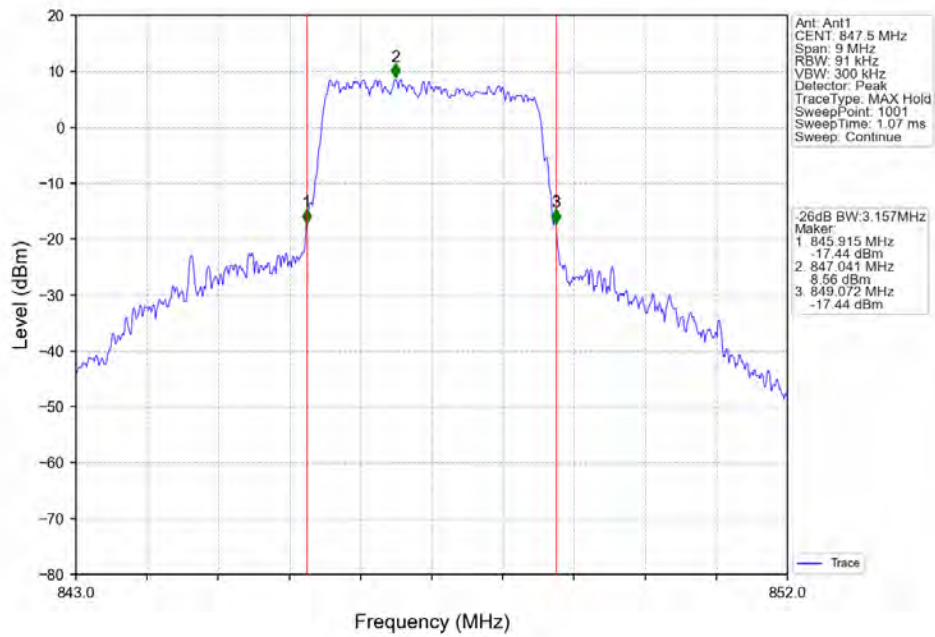
Band5 3MHz 64QAM LCH 825.5MHz RB 15 0 NTNV



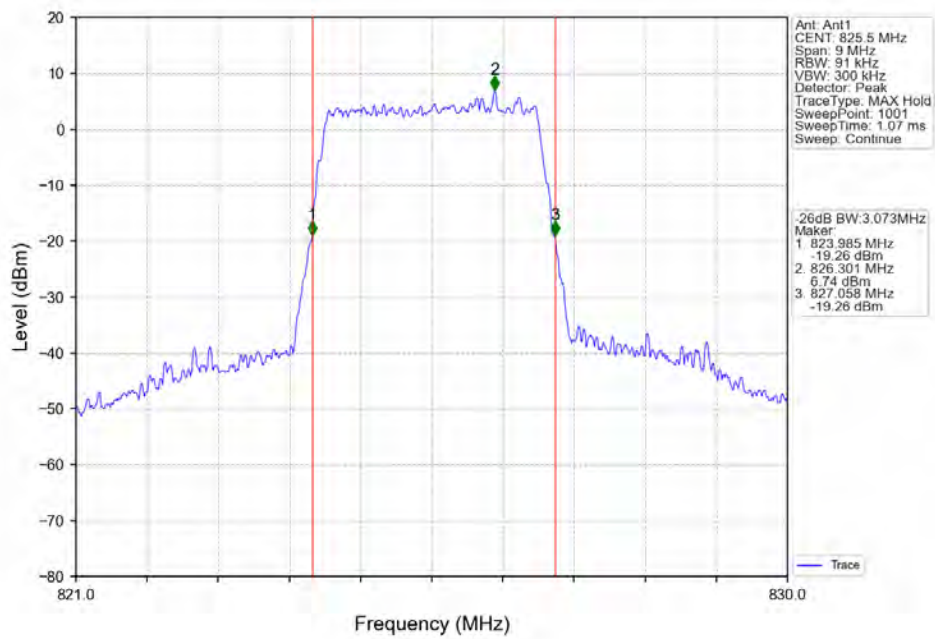
Band5 3MHz 64QAM MCH 836.5MHz RB 15 0 NTNV



Band5 3MHz 64QAM HCH 847.5MHz RB 15 0 NTV

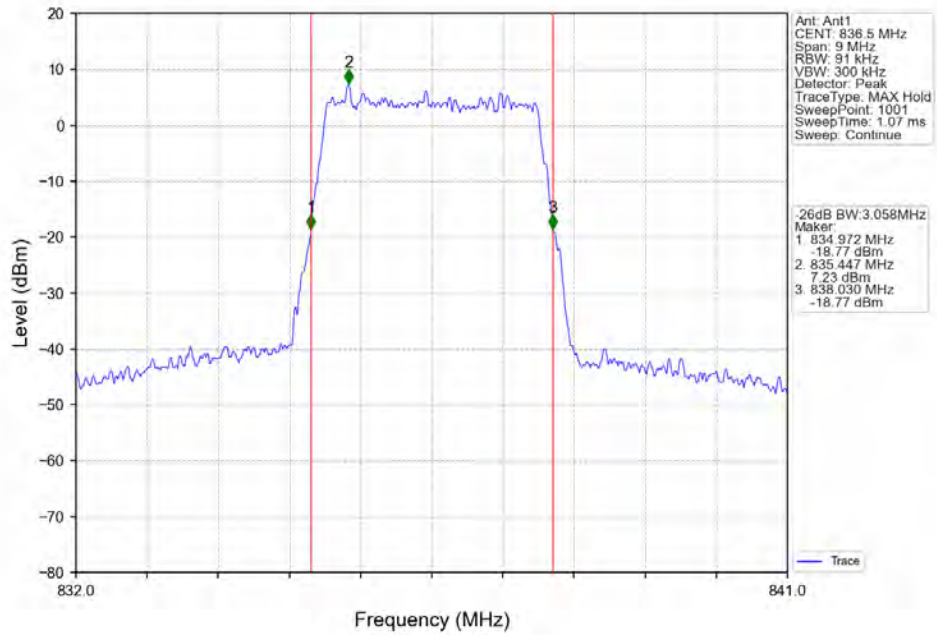


Band5 3MHz 256QAM LCH 825.5MHz RB 15 0 NTV

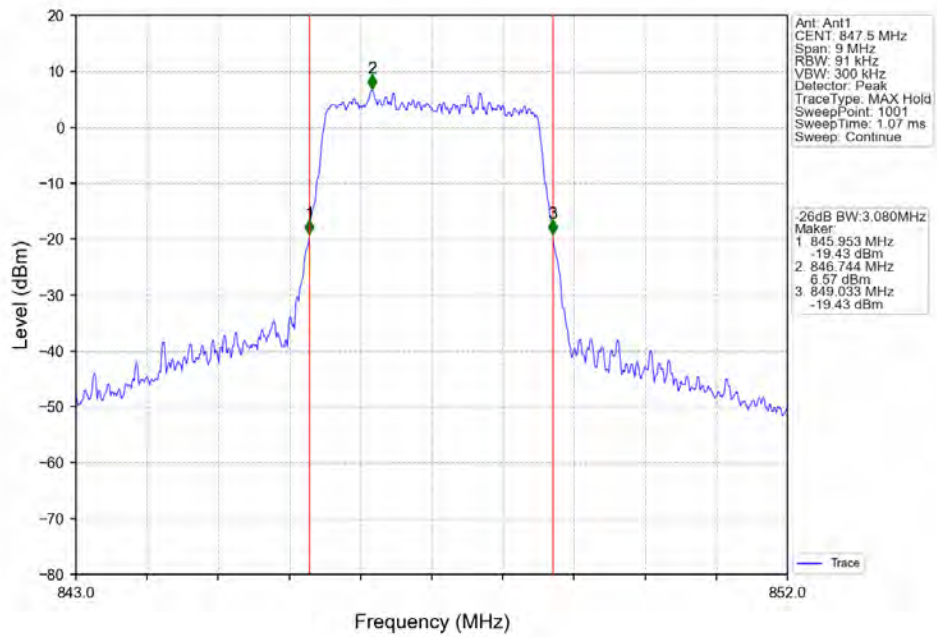




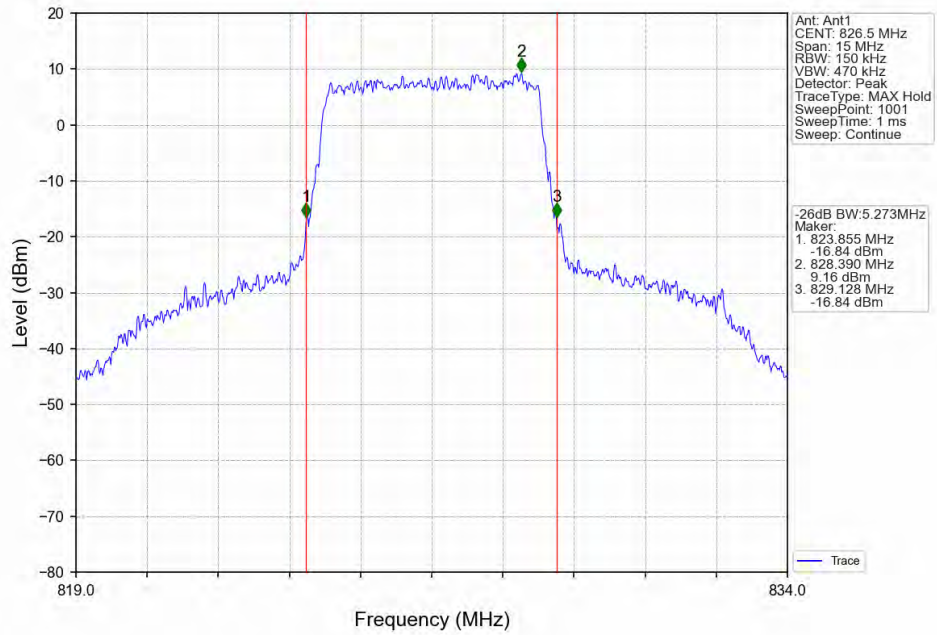
Band5 3MHz 256QAM MCH 836.5MHz RB 15 0 NTNV



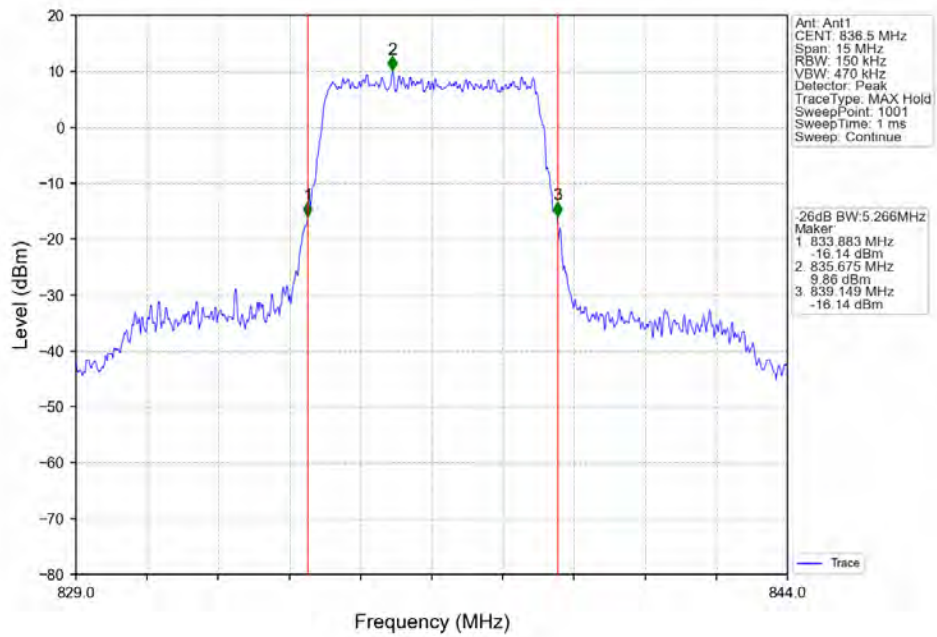
Band5 3MHz 256QAM HCH 847.5MHz RB 15 0 NTNV



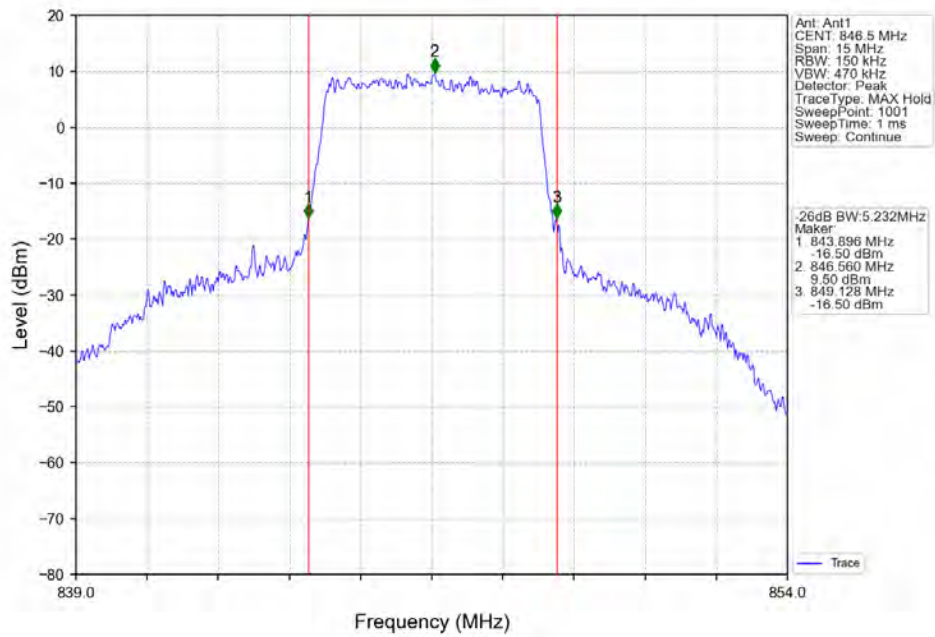
Band5 5MHz QPSK LCH 826.5MHz RB 25 0 NTN



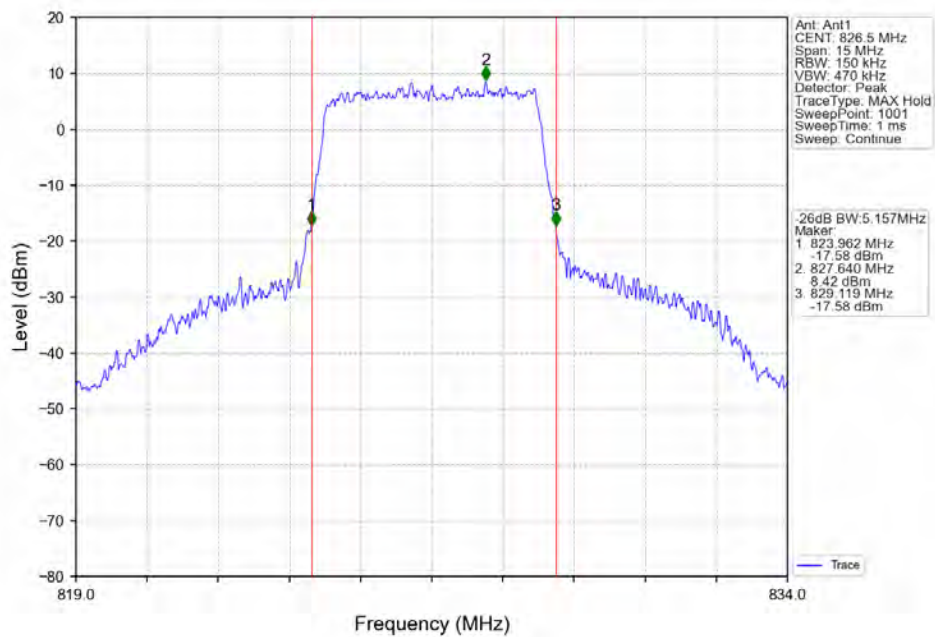
Band5 5MHz QPSK MCH 836.5MHz RB 25 0 NTN



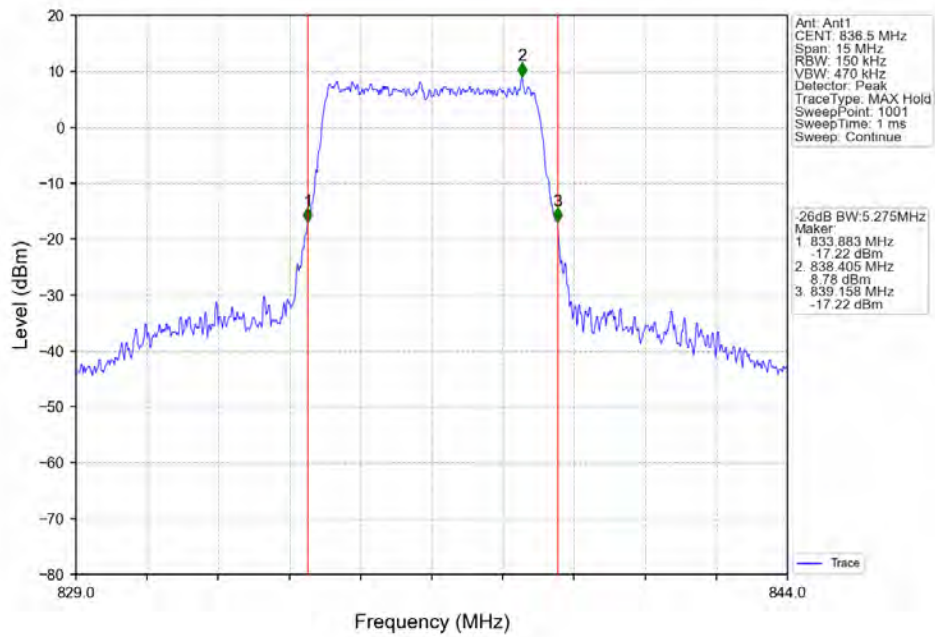
Band5 5MHz QPSK HCH 846.5MHz RB 25 0 NTNV



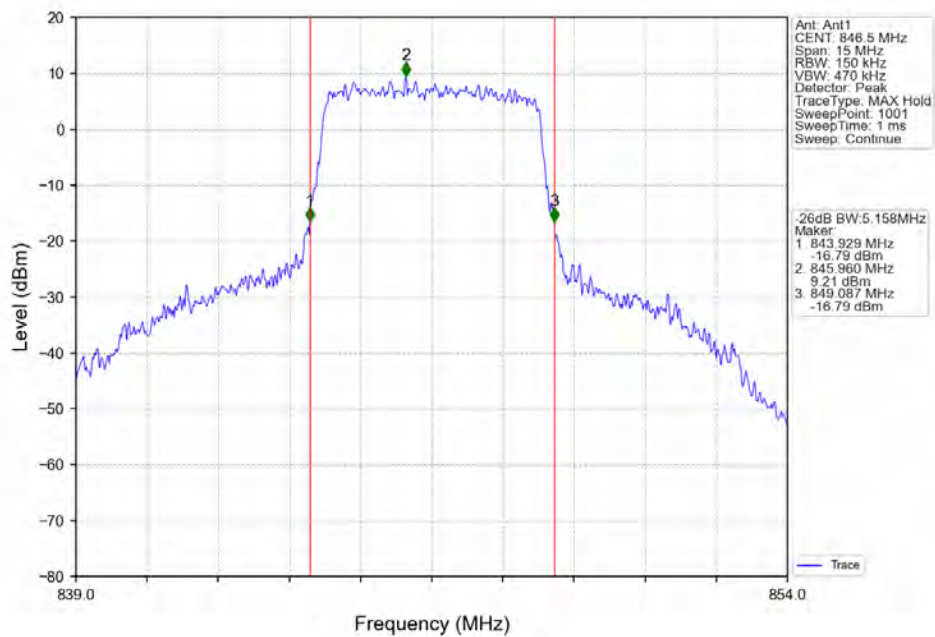
Band5 5MHz 16QAM LCH 826.5MHz RB 25 0 NTNV



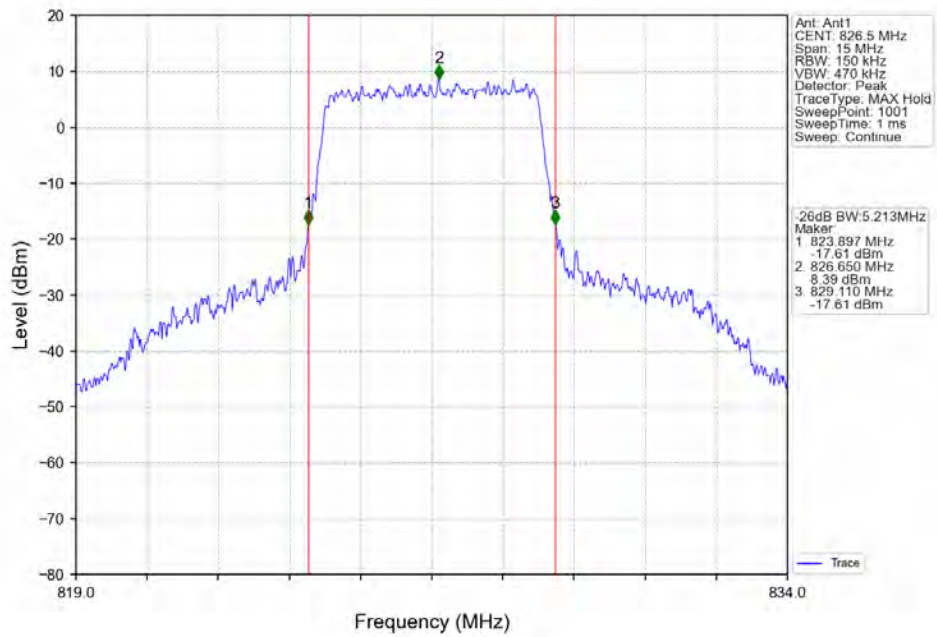
Band5 5MHz 16QAM MCH 836.5MHz RB 25 0 NTNV



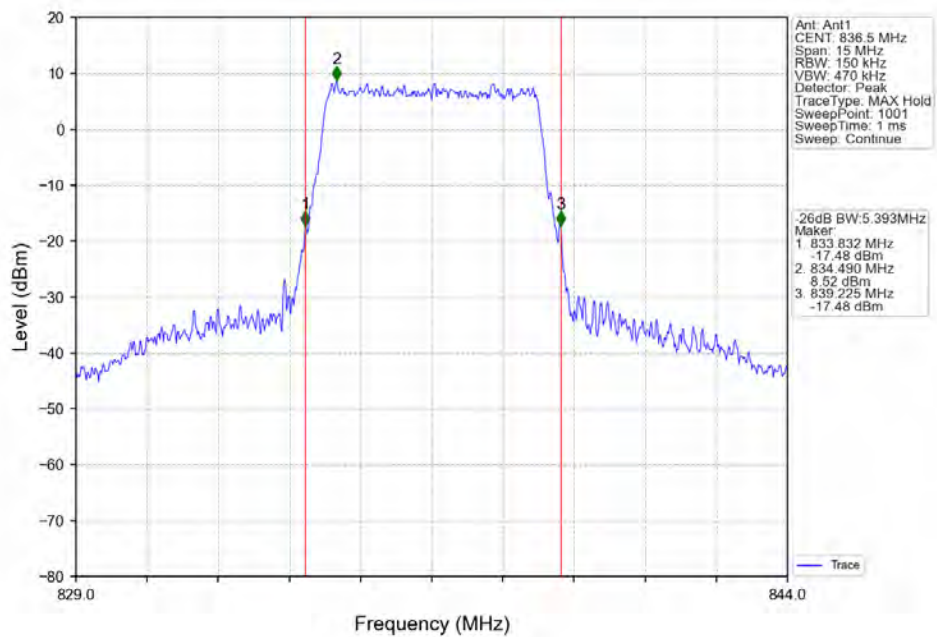
Band5 5MHz 16QAM HCH 846.5MHz RB 25 0 NTNV



Band5 5MHz 64QAM LCH 826.5MHz RB 25 0 NTNV

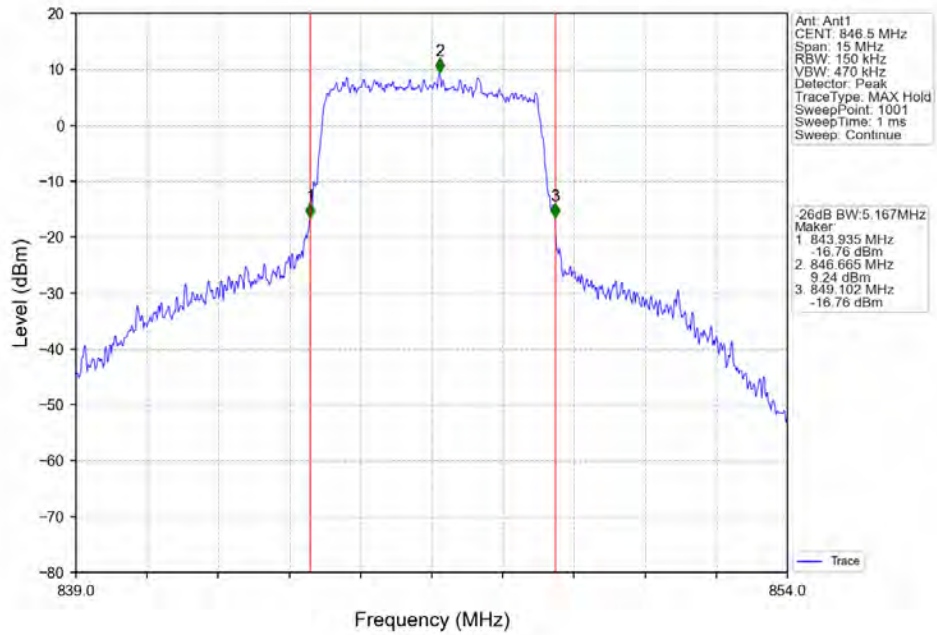


Band5 5MHz 64QAM MCH 836.5MHz RB 25 0 NTNV

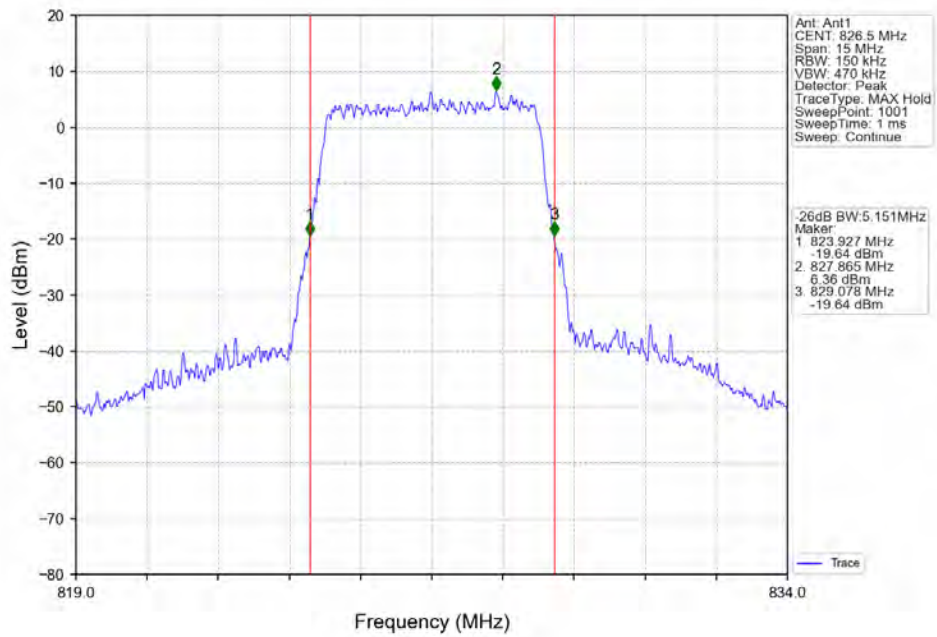




Band5 5MHz 64QAM HCH 846.5MHz RB 25 0 NTNV

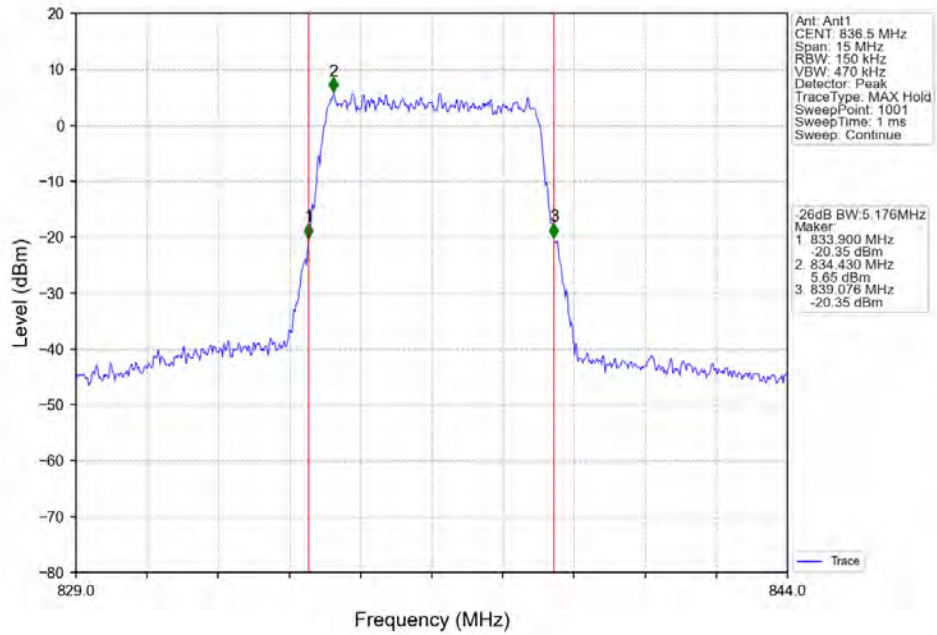


Band5 5MHz 256QAM LCH 826.5MHz RB 25 0 NTNV

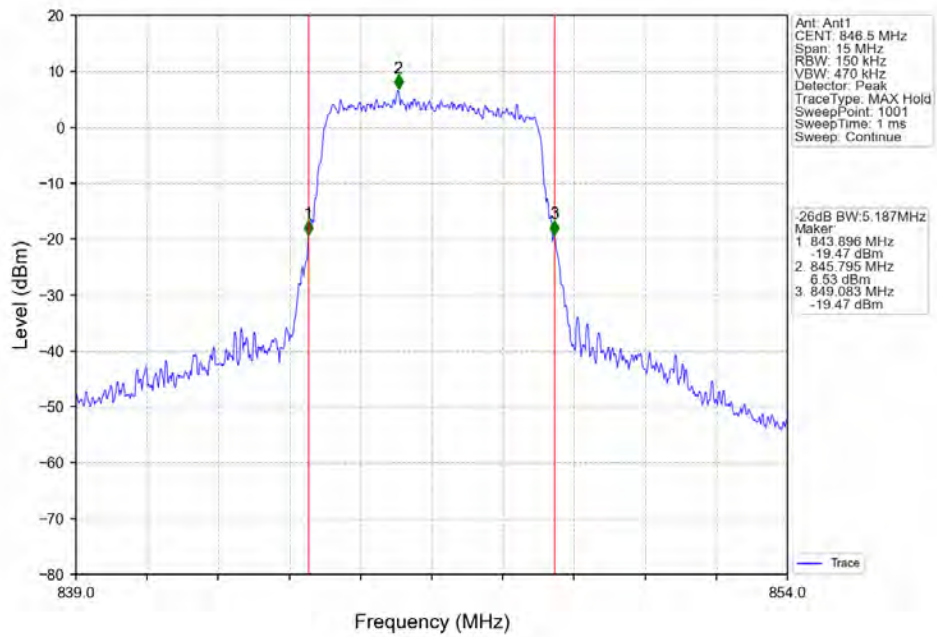




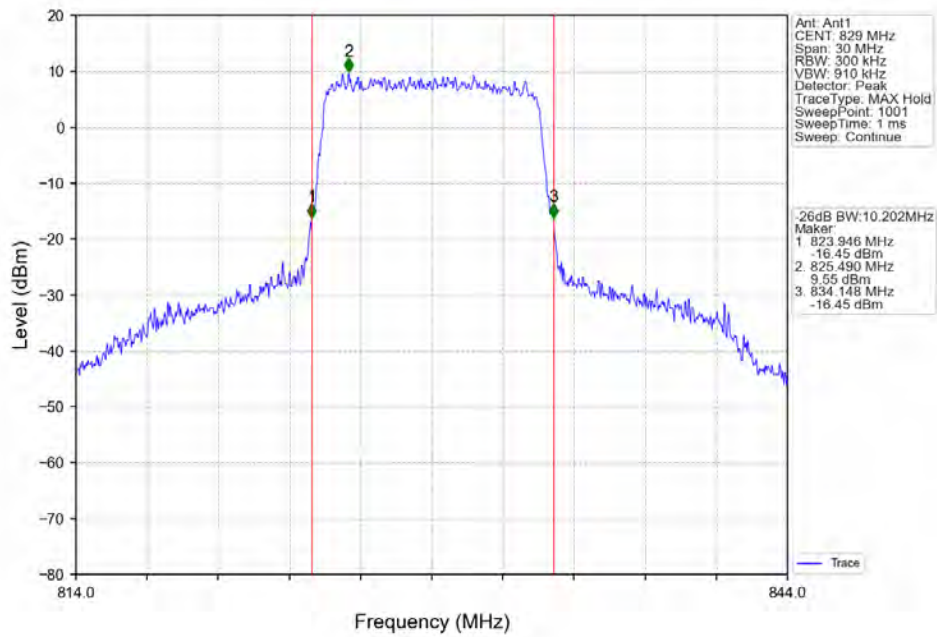
Band5 5MHz 256QAM MCH 836.5MHz RB 25 0 NTNV



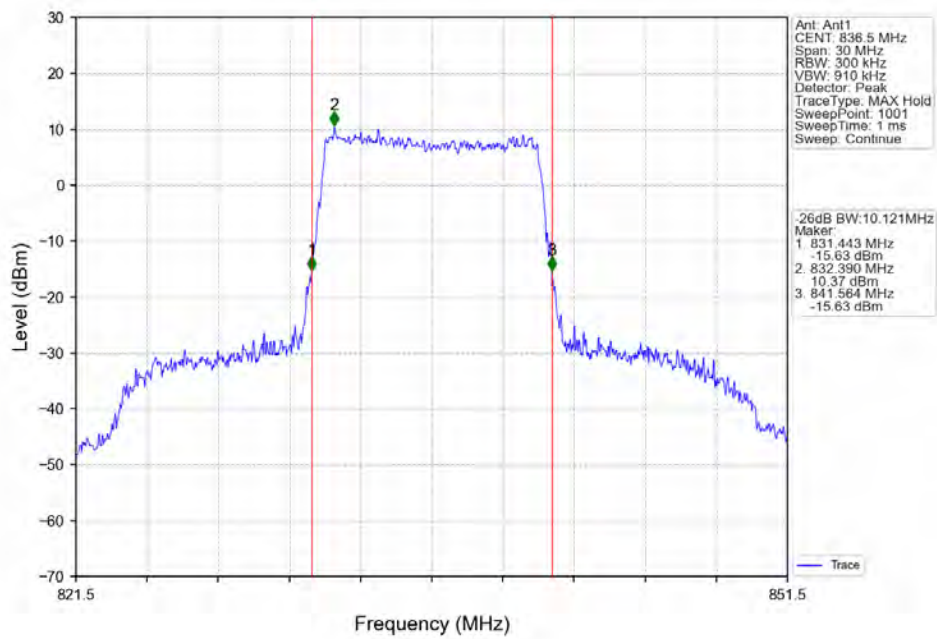
Band5 5MHz 256QAM HCH 846.5MHz RB 25 0 NTNV



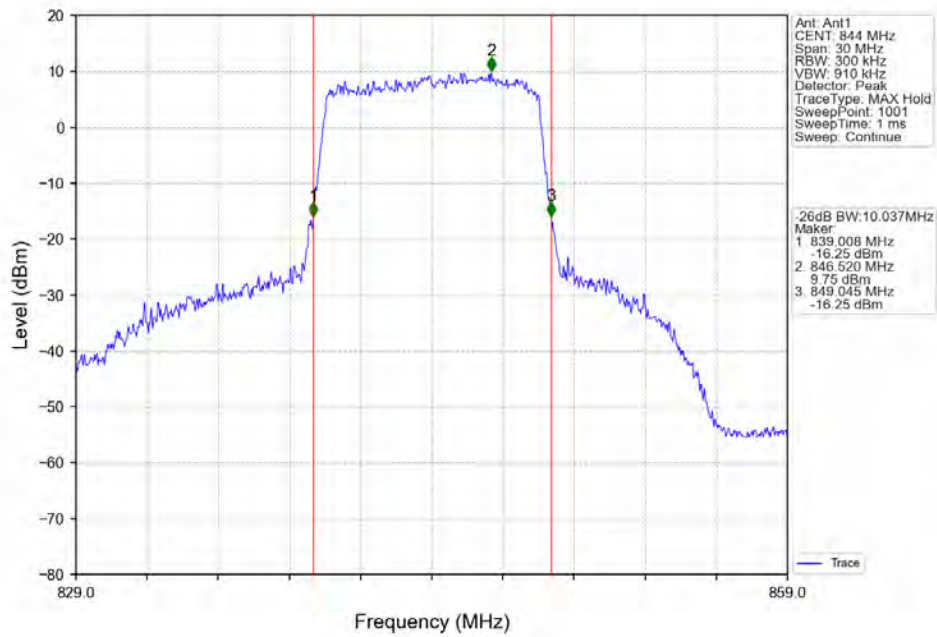
Band5 10MHz QPSK LCH 829MHz RB 50 0 NTNV



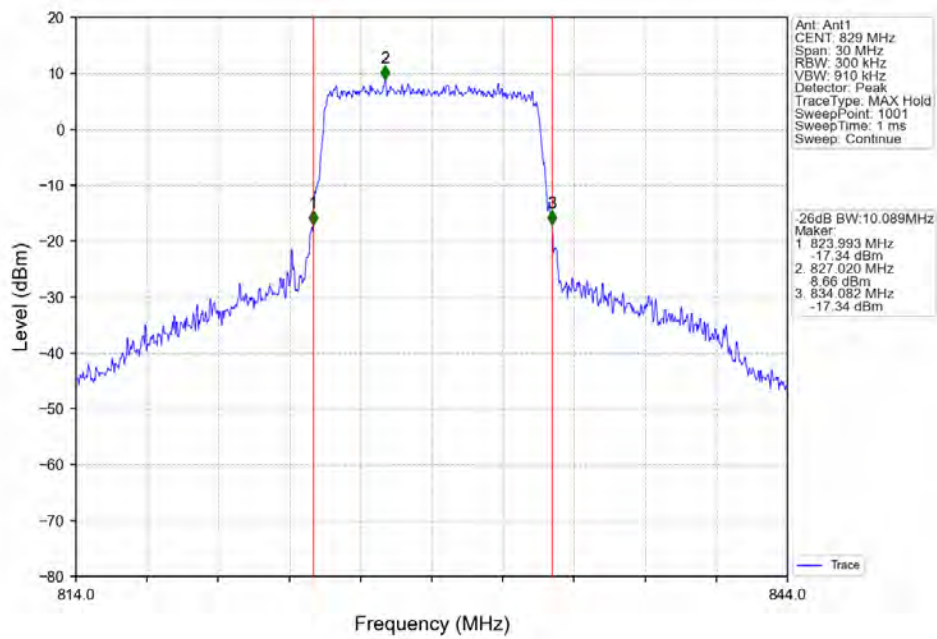
Band5 10MHz QPSK MCH 836.5MHz RB 50 0 NTNV



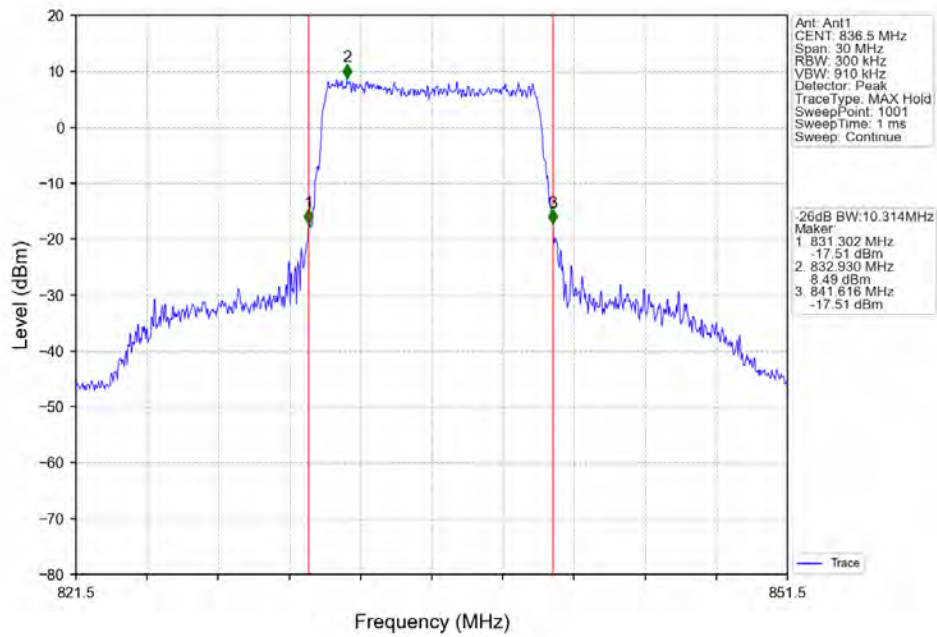
Band5 10MHz QPSK HCH 844MHz RB 50 0 NTN



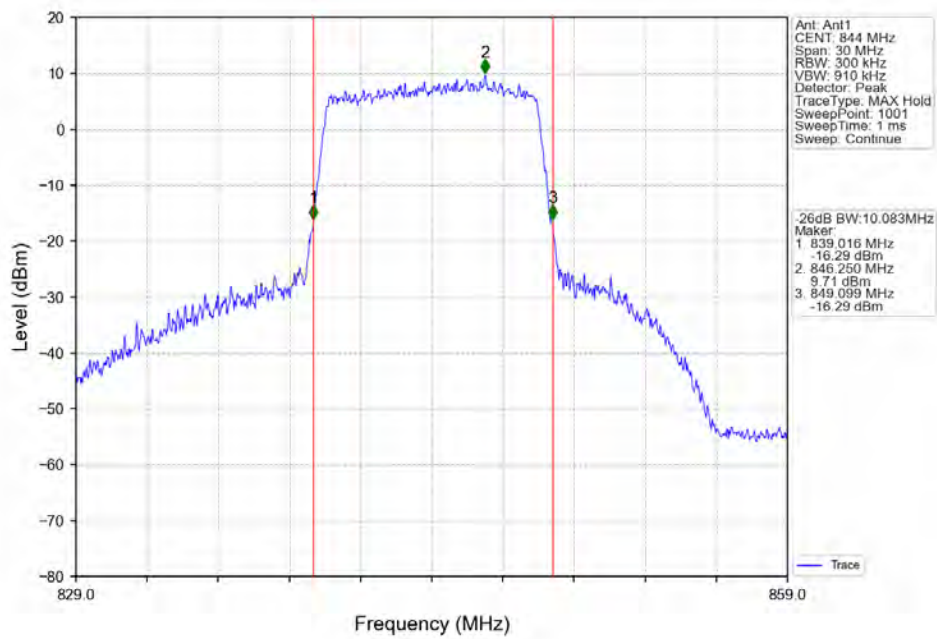
Band5 10MHz 16QAM LCH 829MHz RB 50 0 NTN



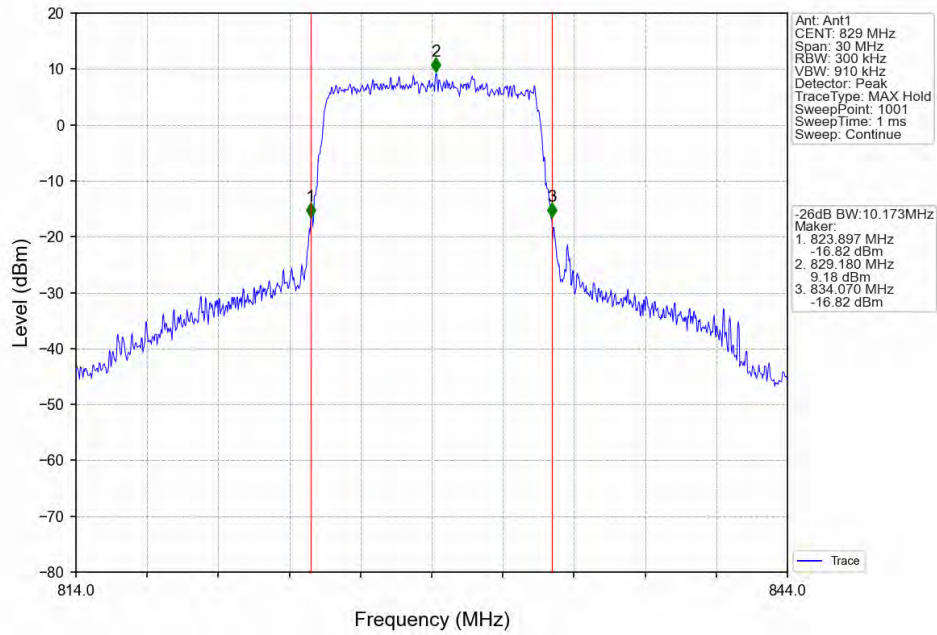
Band5 10MHz 16QAM MCH 836.5MHz RB 50 0 NTNV



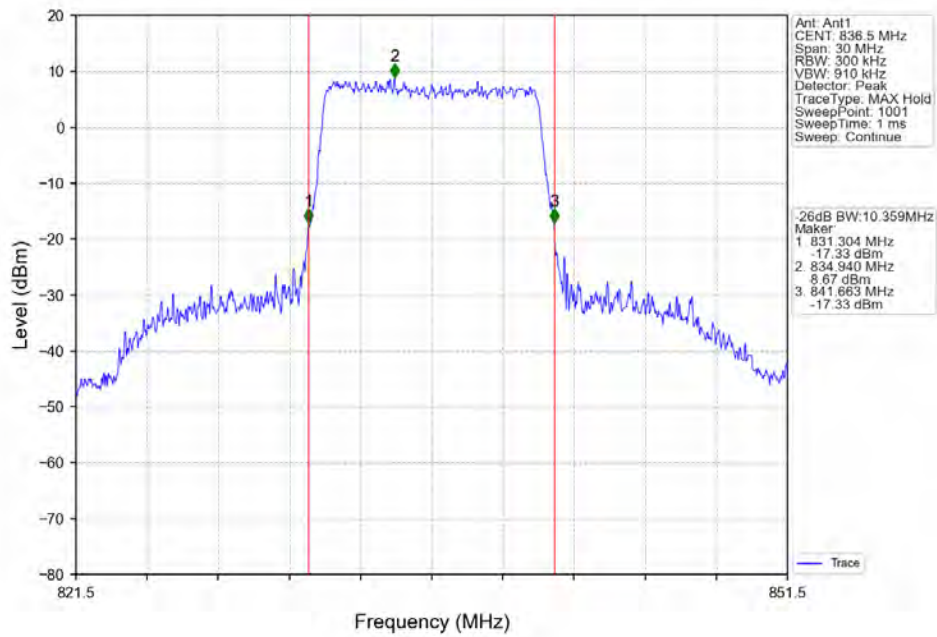
Band5 10MHz 16QAM HCH 844MHz RB 50 0 NTNV



Band5 10MHz 64QAM LCH 829MHz RB 50 0 NTN

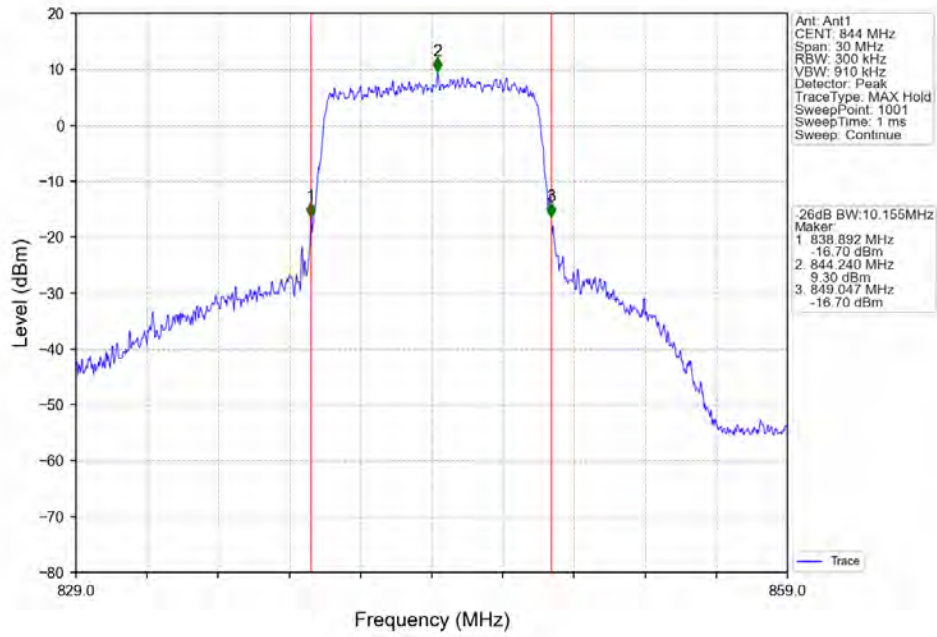


Band5 10MHz 64QAM MCH 836.5MHz RB 50 0 NTN

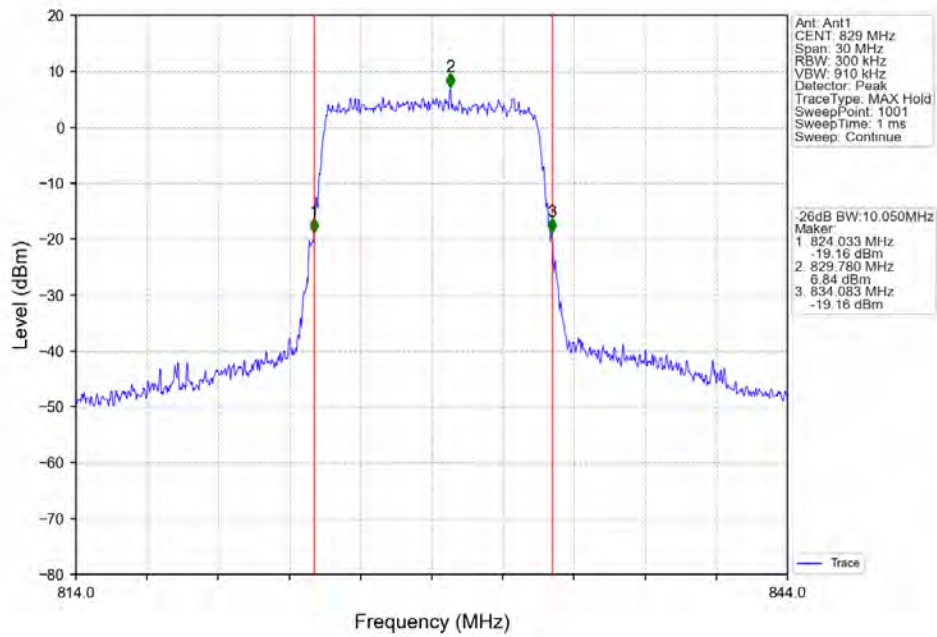




Band5 10MHz 64QAM HCH 844MHz RB 50 0 NTNV

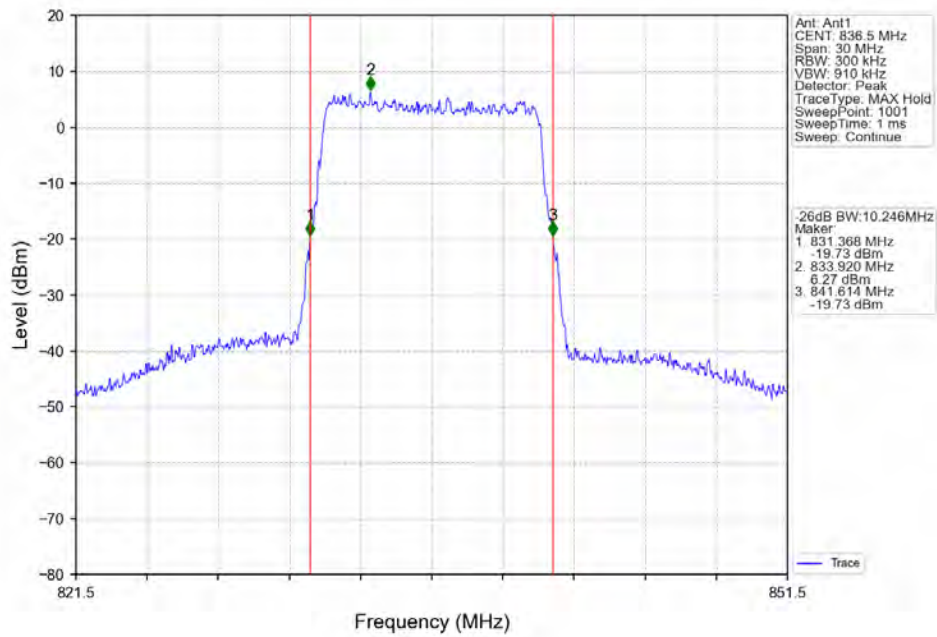


Band5 10MHz 256QAM LCH 829MHz RB 50 0 NTNV

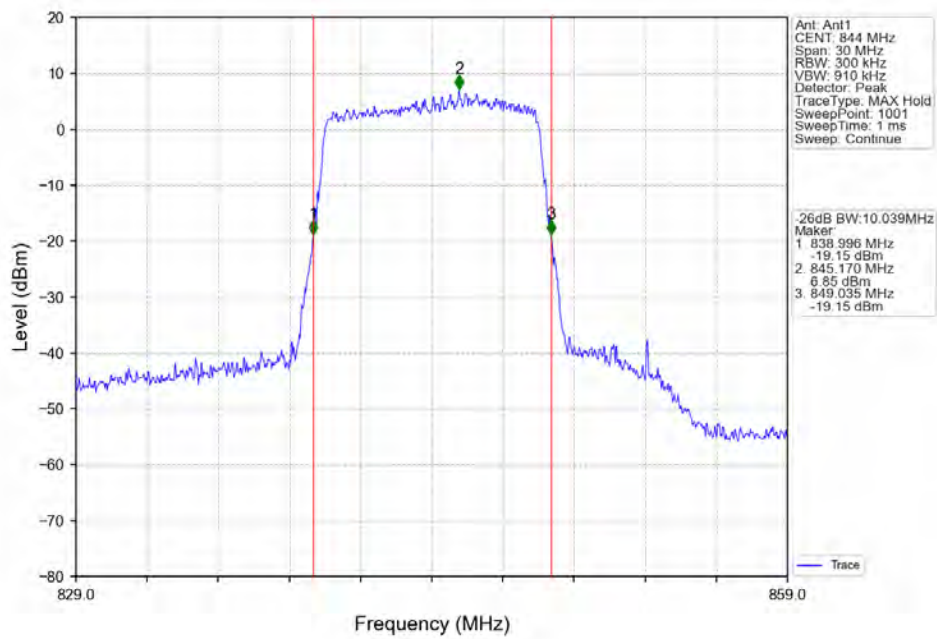




Band5 10MHz 256QAM MCH 836.5MHz RB 50 0 NTN



Band5 10MHz 256QAM HCH 844MHz RB 50 0 NTN



## 4. Peak-Average Ratio

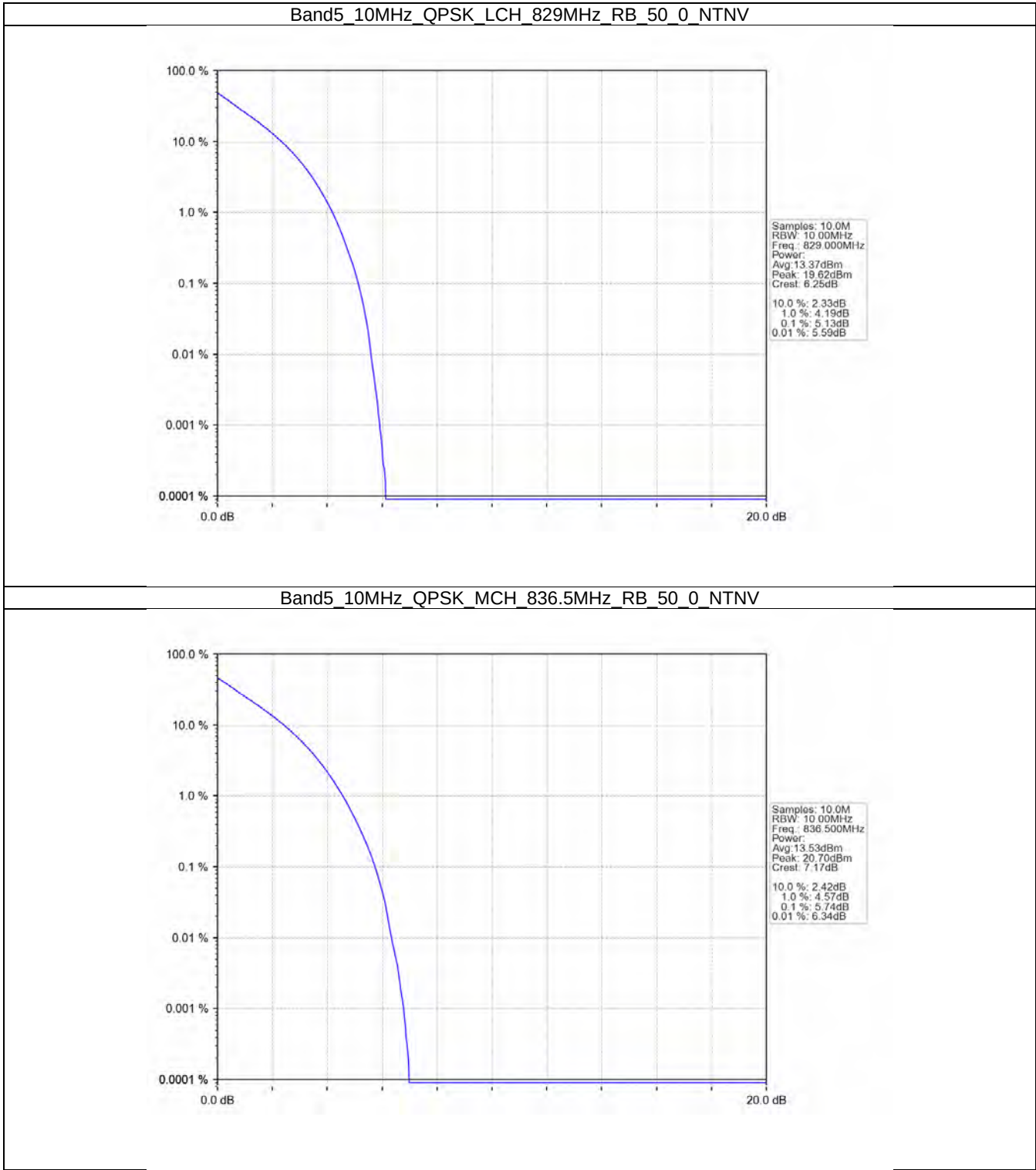
### 4.1 Test Result

#### 4.1.1 B5\_10MHz

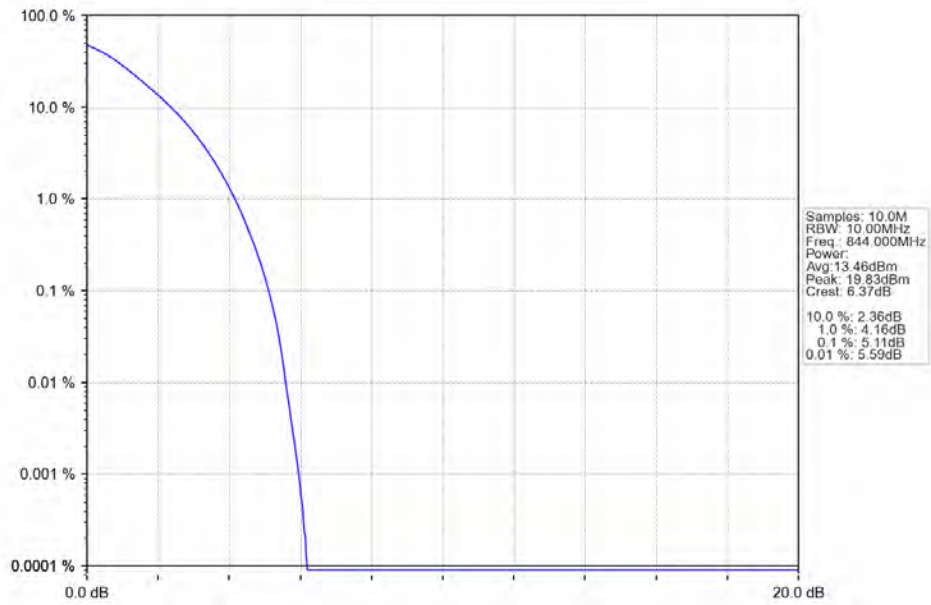
| Band: 5 / Bandwidth: 10MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 829             | 50            | 0      | 5.13                    | <=13  | Pass    |
|                                   | 836.5           | 50            | 0      | 5.74                    | <=13  | Pass    |
|                                   | 844             | 50            | 0      | 5.11                    | <=13  | Pass    |
| 16QAM                             | 829             | 50            | 0      | 5.83                    | <=13  | Pass    |
|                                   | 836.5           | 50            | 0      | 6.31                    | <=13  | Pass    |
|                                   | 844             | 50            | 0      | 5.80                    | <=13  | Pass    |
| 64QAM                             | 829             | 50            | 0      | 5.83                    | <=13  | Pass    |
|                                   | 836.5           | 50            | 0      | 6.30                    | <=13  | Pass    |
|                                   | 844             | 50            | 0      | 5.78                    | <=13  | Pass    |
| 256QAM                            | 829             | 50            | 0      | 6.46                    | <=13  | Pass    |
|                                   | 836.5           | 50            | 0      | 6.72                    | <=13  | Pass    |
|                                   | 844             | 50            | 0      | 6.46                    | <=13  | Pass    |

4.2 Test Graph

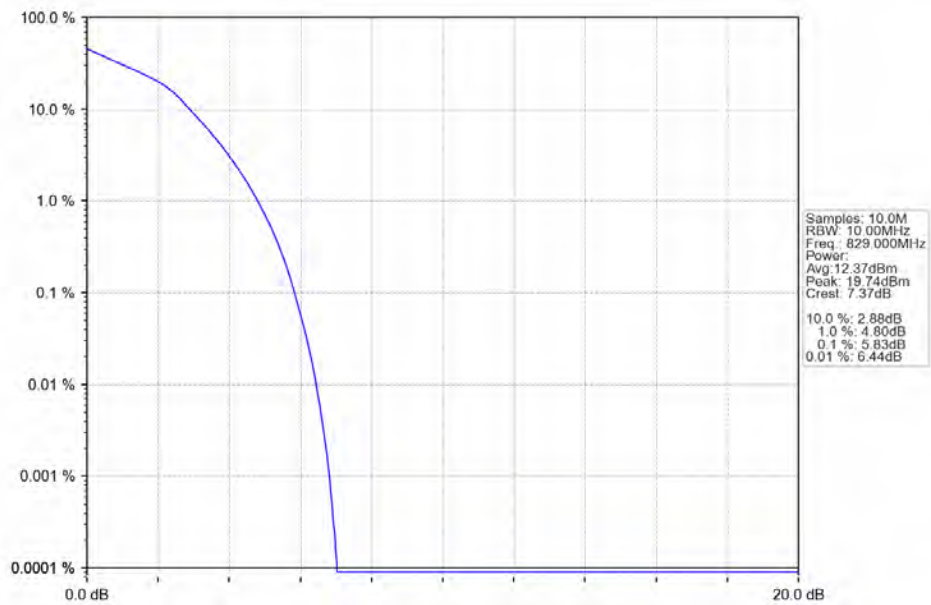
4.2.1 B5\_10MHz



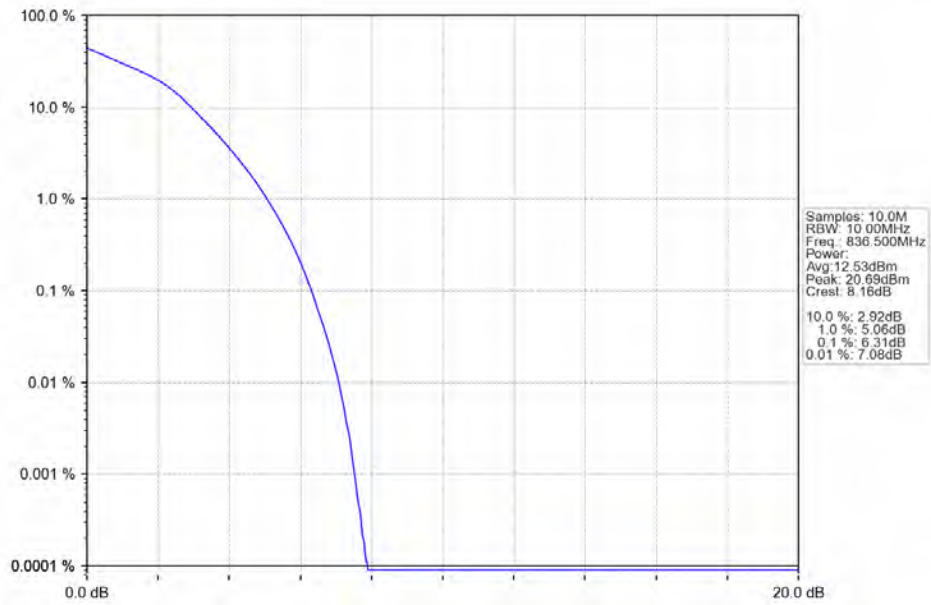
Band5 10MHz QPSK HCH 844MHz RB 50 0 NTNV



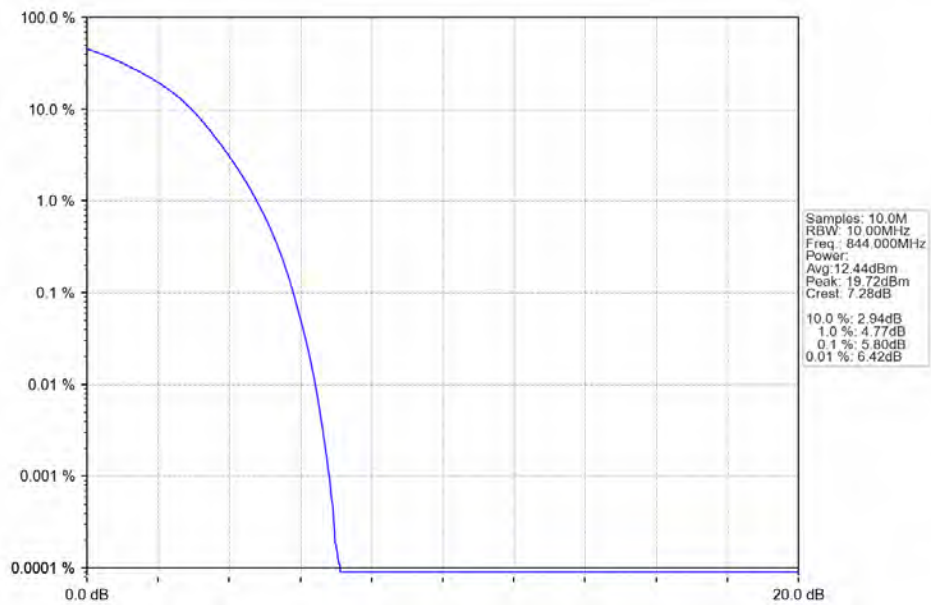
Band5 10MHz 16QAM LCH 829MHz RB 50 0 NTNV



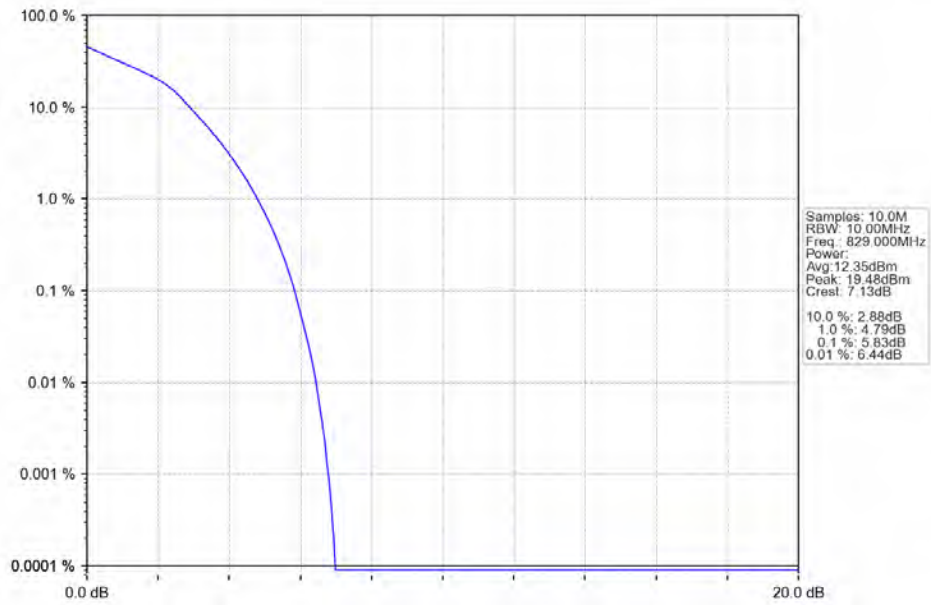
Band5 10MHz 16QAM MCH 836.5MHz RB 50 0 NTNV



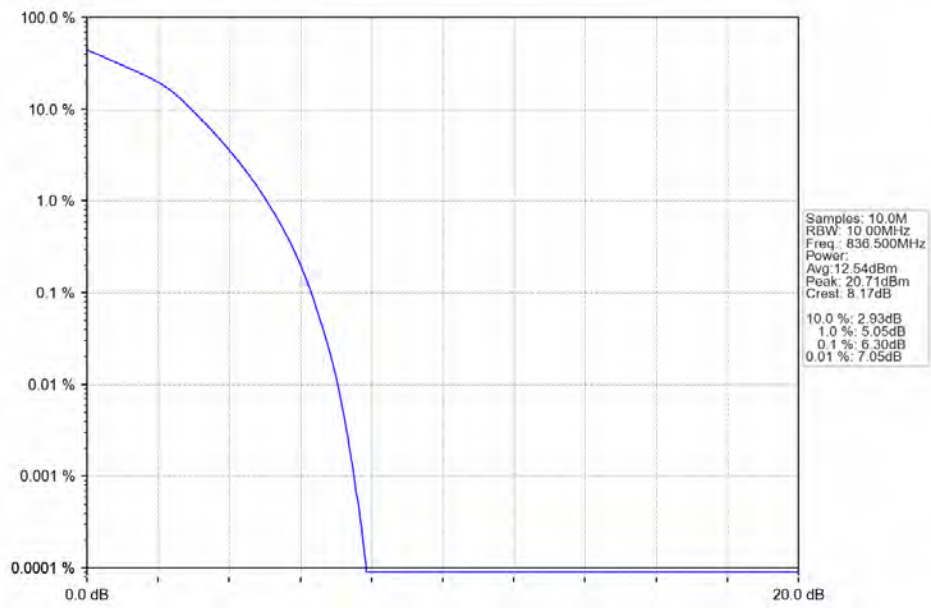
Band5 10MHz 16QAM HCH 844MHz RB 50 0 NTNV



Band5 10MHz 64QAM LCH 829MHz RB 50 0 NTNV

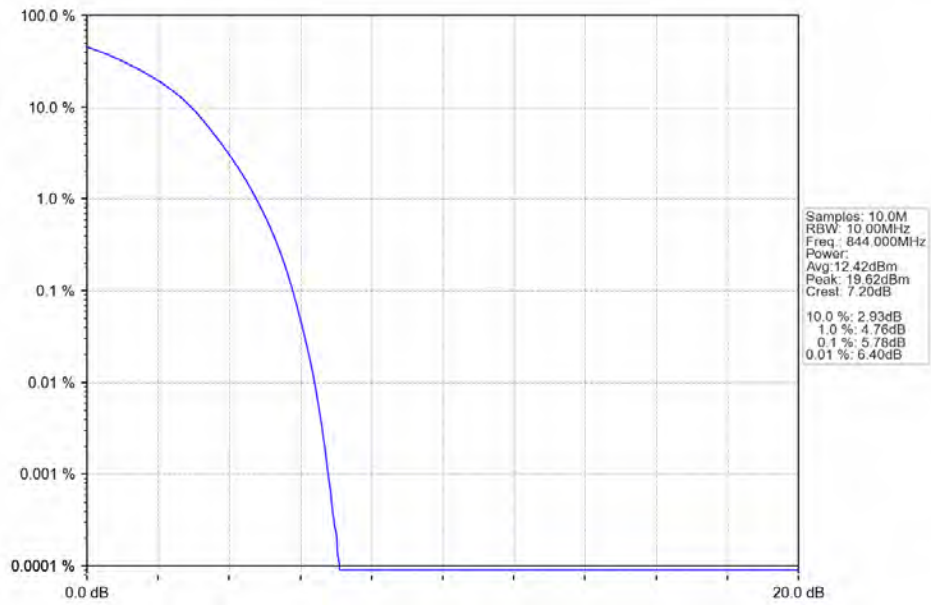


Band5 10MHz 64QAM MCH 836.5MHz RB 50 0 NTNV

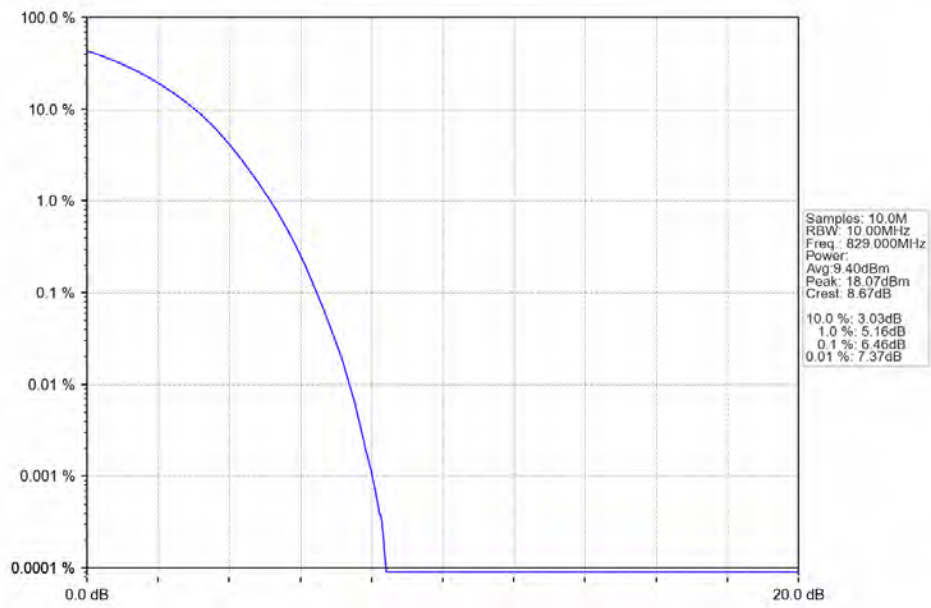




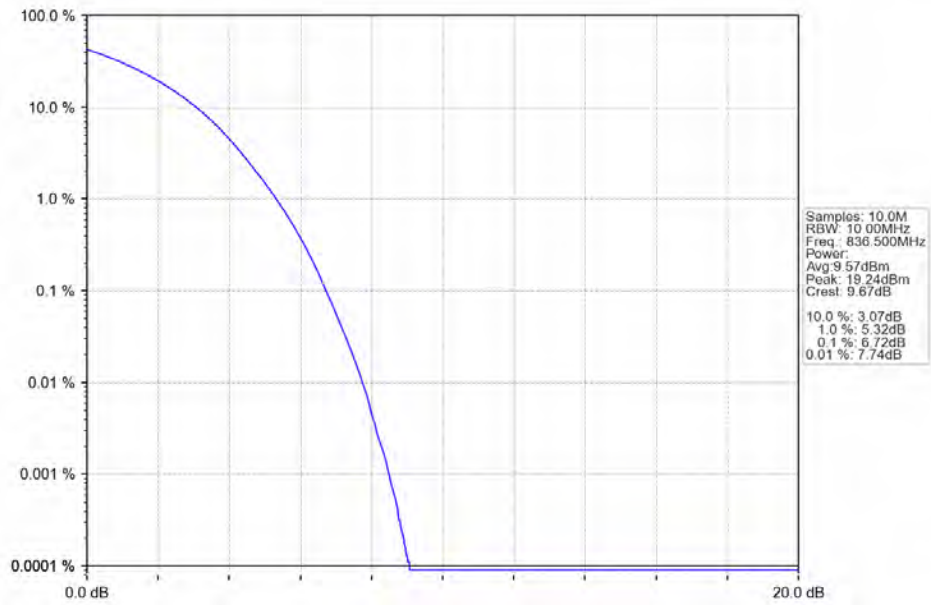
Band5 10MHz 64QAM HCH 844MHz RB 50 0 NTN



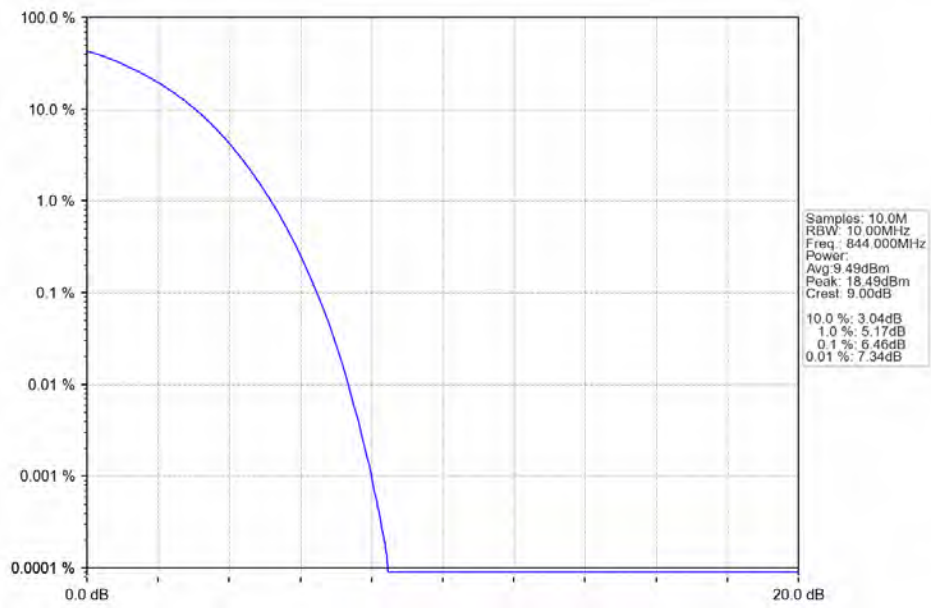
Band5 10MHz 256QAM LCH 829MHz RB 50 0 NTN



Band5 10MHz 256QAM MCH 836.5MHz RB 50 0 NTNV



Band5 10MHz 256QAM HCH 844MHz RB 50 0 NTNV



## 5. Spurious Emission & Band Edges

### 5.1 Test Result

#### 5.1.1 B5\_1.4MHz

| Band: 5 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                     |       |         |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                    |                 | Size          | Offset | Result              | Limit |         |
| QPSK                               | 824.7           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    |                 | 6             | 0      | Refer To Test Graph |       | Pass    |
|                                    | 836.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    | 848.3           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                    |                 |               | 5      | Refer To Test Graph |       | Pass    |
|                                    |                 | 6             | 0      | Refer To Test Graph |       | Pass    |

#### 5.1.2 B5\_3MHz

| Band: 5 / Bandwidth: 3MHz / NTNV |                 |               |        |                     |       |         |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                  |                 | Size          | Offset | Result              | Limit |         |
| QPSK                             | 825.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 15            | 0      | Refer To Test Graph |       | Pass    |
|                                  | 836.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  | 847.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 14     | Refer To Test Graph |       | Pass    |
|                                  |                 | 15            | 0      | Refer To Test Graph |       | Pass    |

#### 5.1.3 B5\_5MHz

| Band: 5 / Bandwidth: 5MHz / NTNV |                 |               |        |                     |       |         |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                  |                 | Size          | Offset | Result              | Limit |         |
| QPSK                             | 826.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
|                                  | 836.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  | 846.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 24     | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |

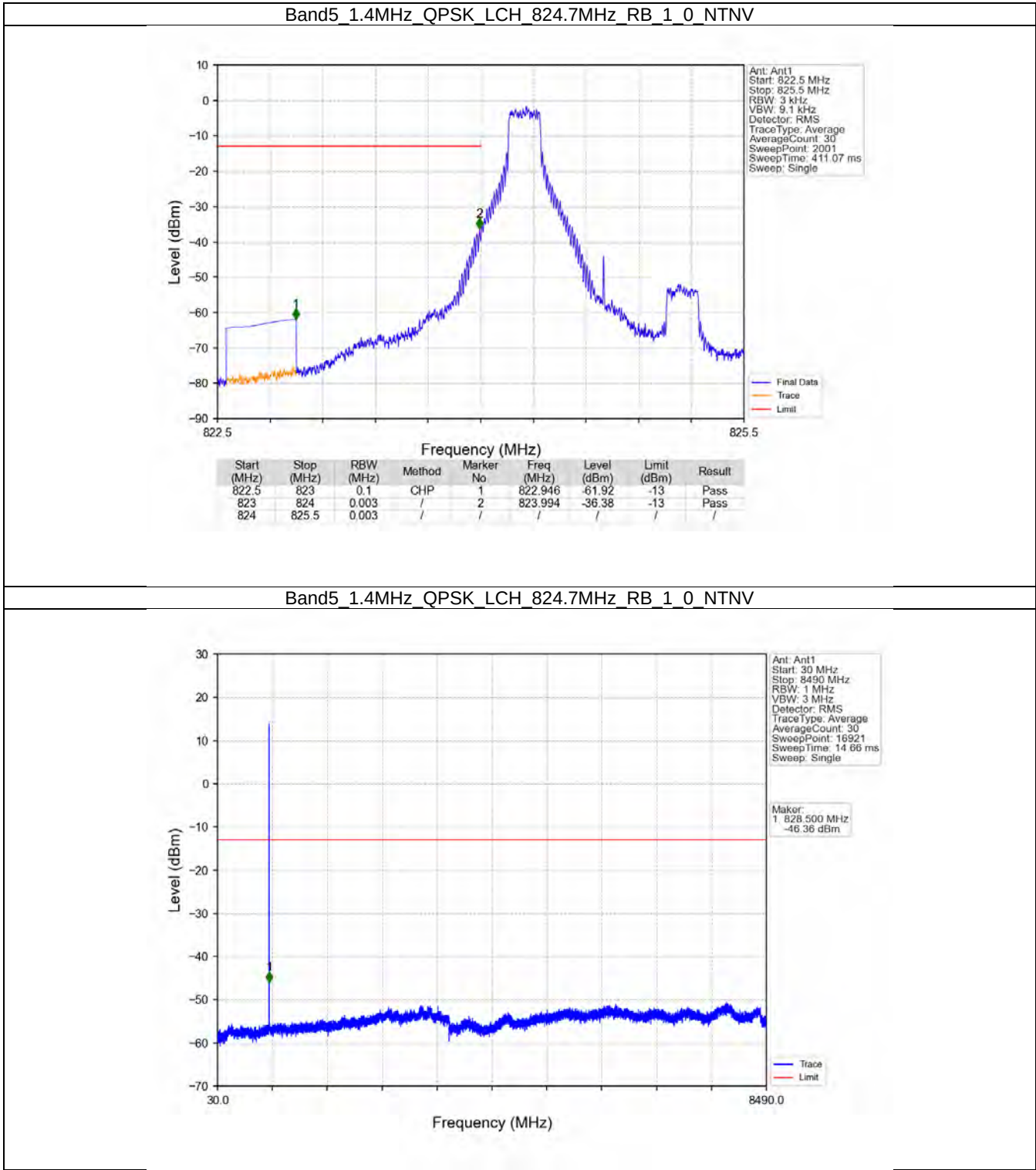
#### 5.1.4 B5\_10MHz

| Band: 5 / Bandwidth: 10MHz / NTNV |                 |               |        |                     |       |         |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                   |                 | Size          | Offset | Result              | Limit |         |
| QPSK                              | 829             | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 | 50            | 0      | Refer To Test Graph |       | Pass    |
|                                   | 836.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   | 844             | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 |               | 49     | Refer To Test Graph |       | Pass    |
|                                   |                 | 50            | 0      | Refer To Test Graph |       | Pass    |

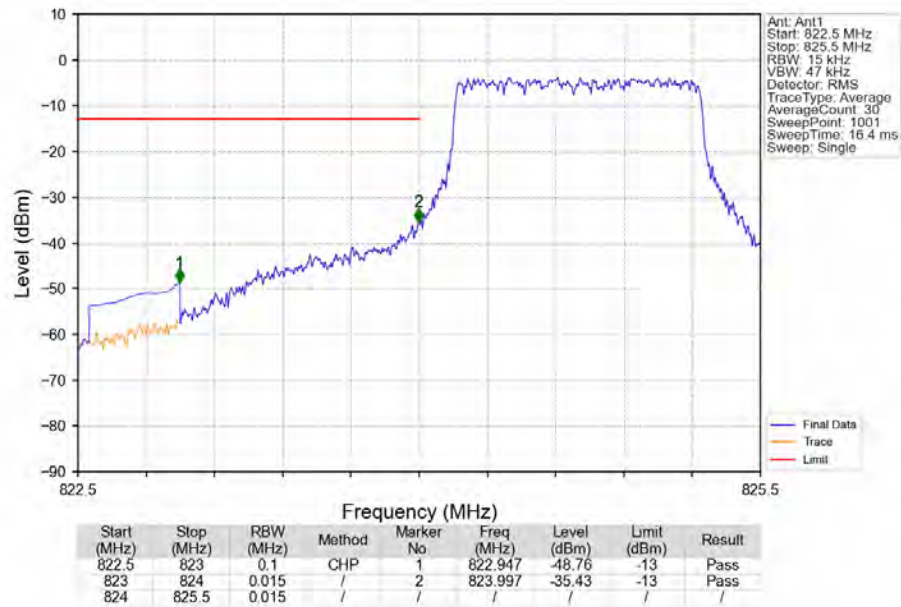


5.2 Test Graph

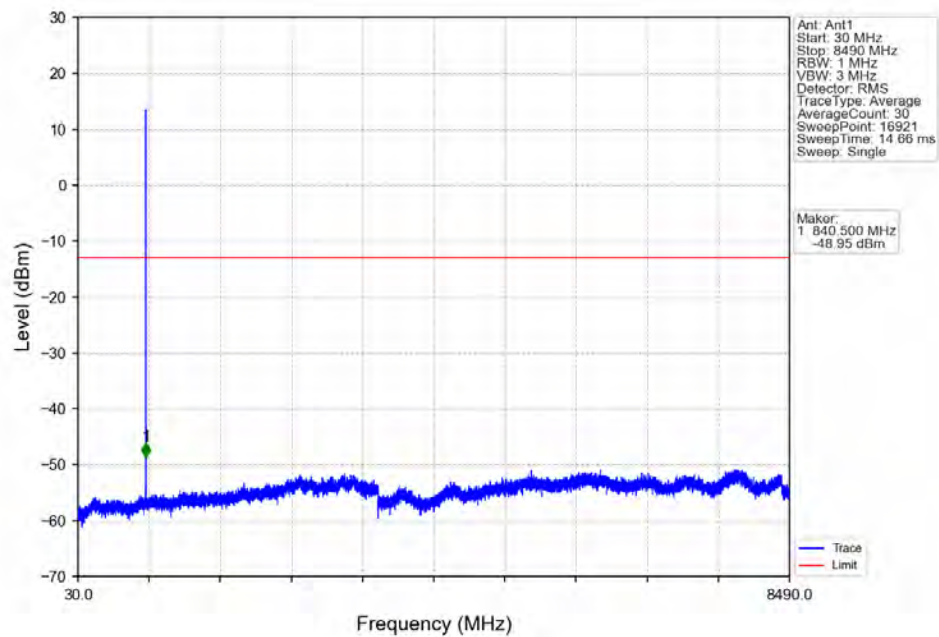
5.2.1 B5\_1.4MHz



Band5 1.4MHz QPSK LCH 824.7MHz RB 6 0 NTNV

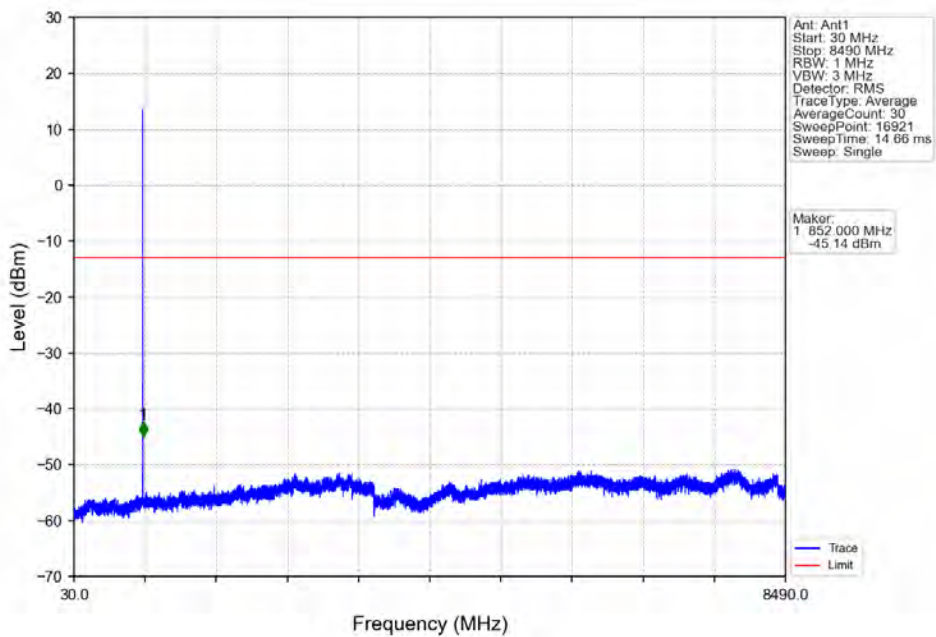


Band5 1.4MHz QPSK MCH 836.5MHz RB 1 0 NTNV

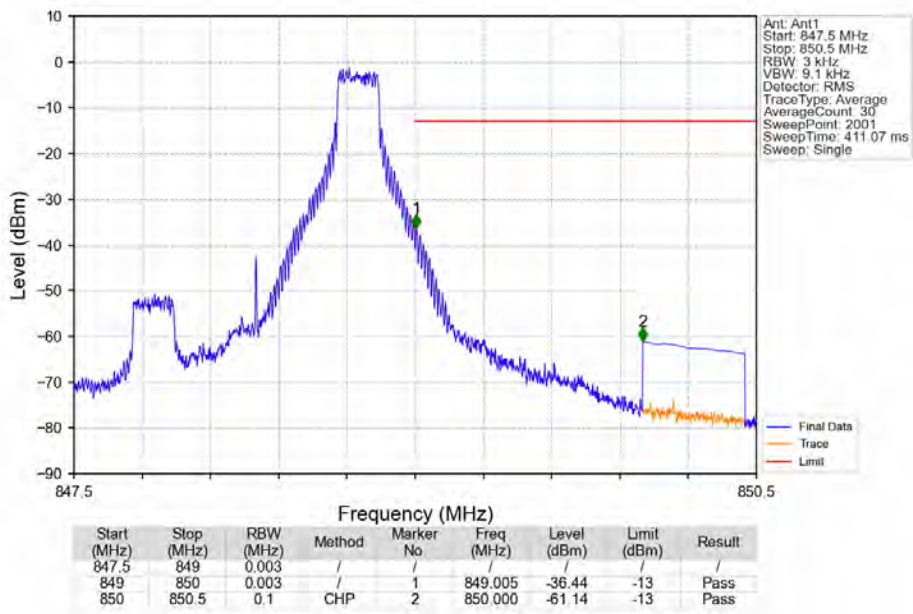


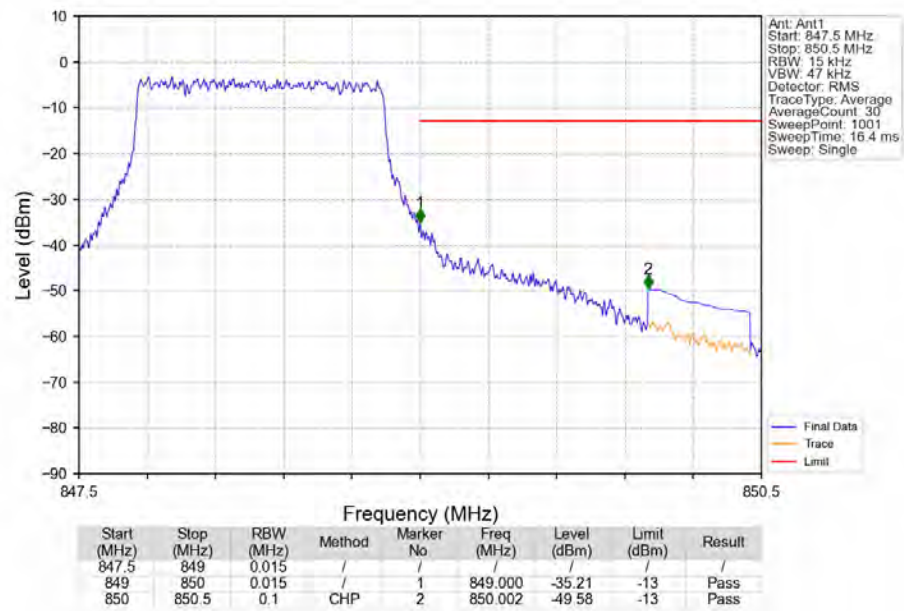


Band5 1.4MHz QPSK HCH 848.3MHz RB 1 0 NTNV

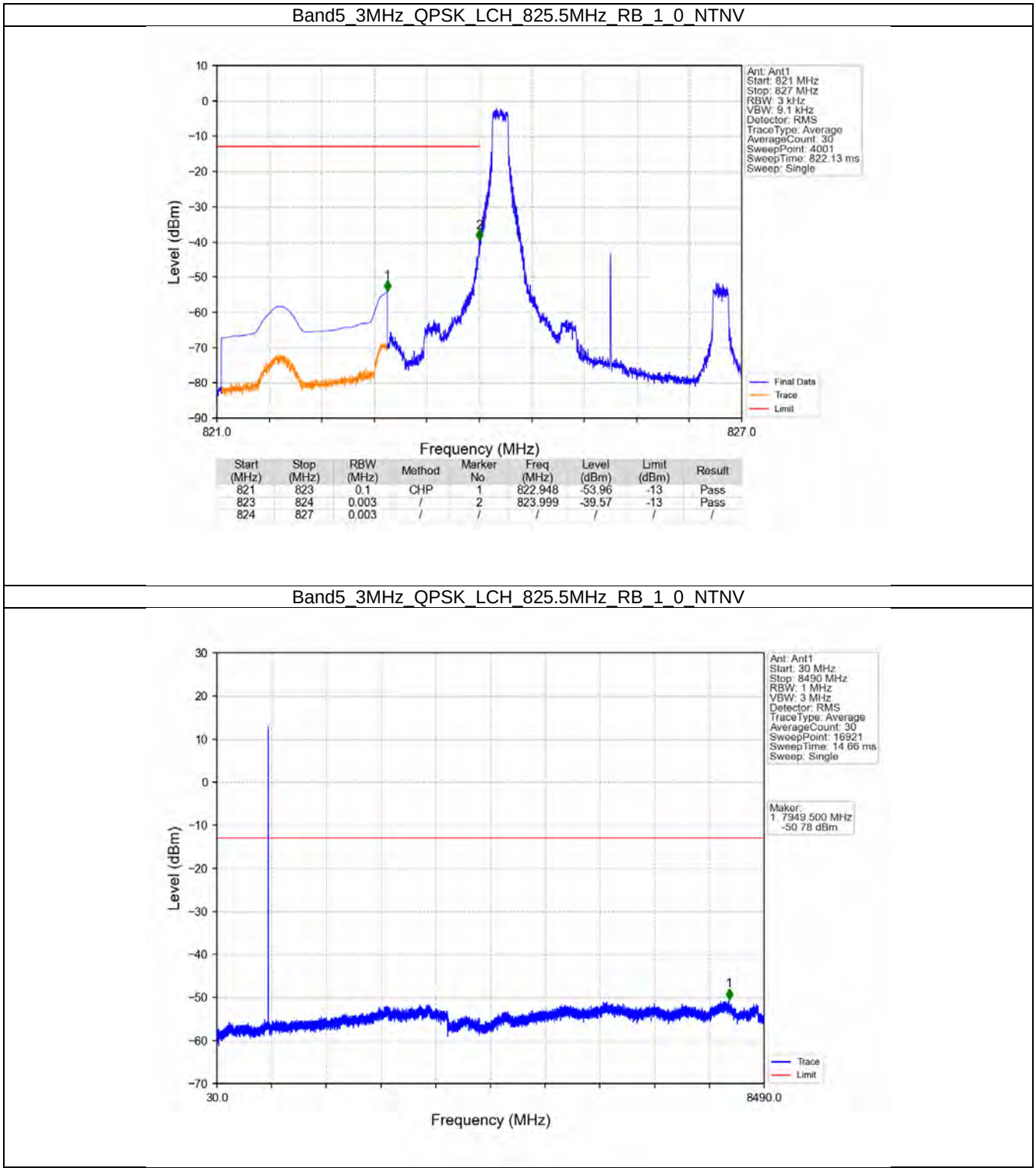


Band5 1.4MHz QPSK HCH 848.3MHz RB 1 5 NTNV

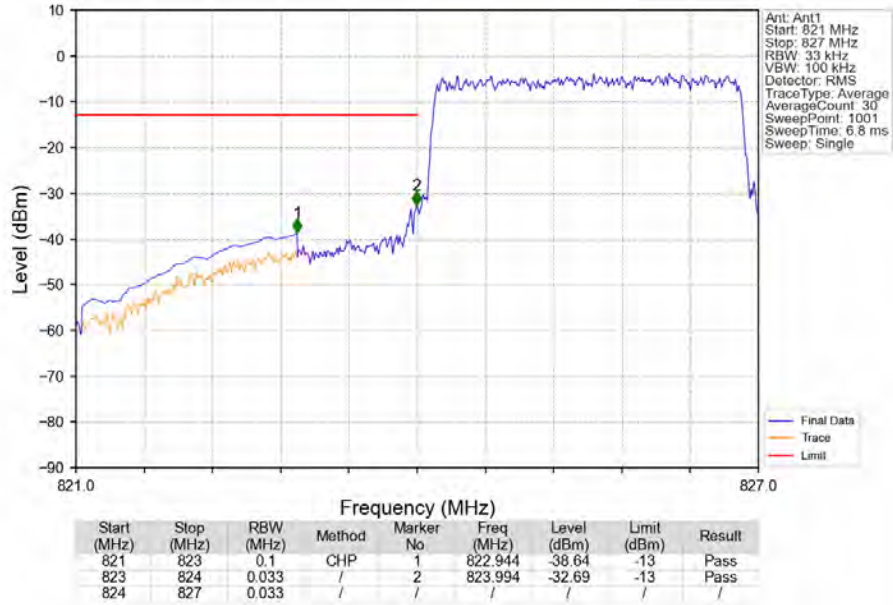




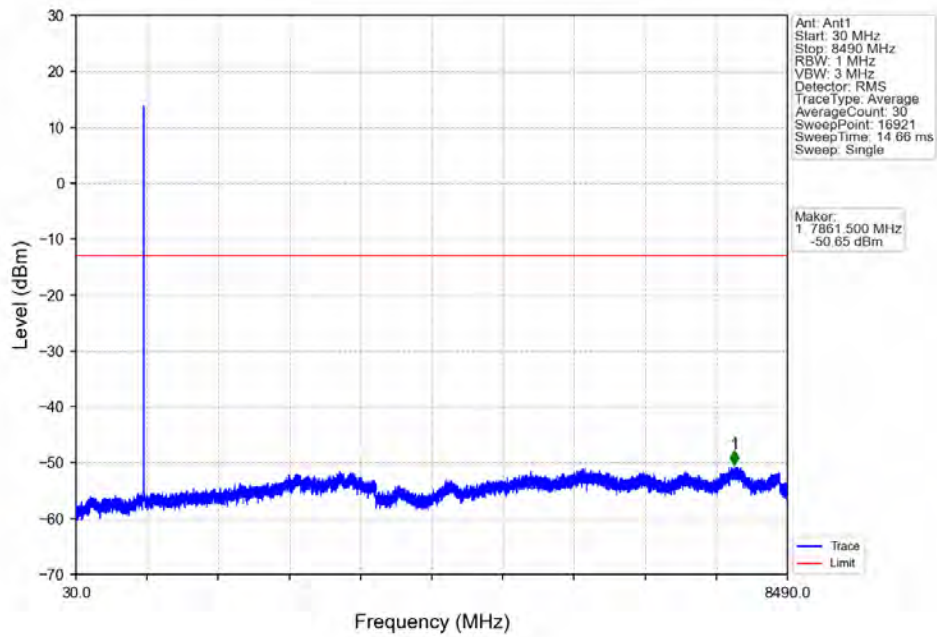
5.2.2 B5\_3MHz



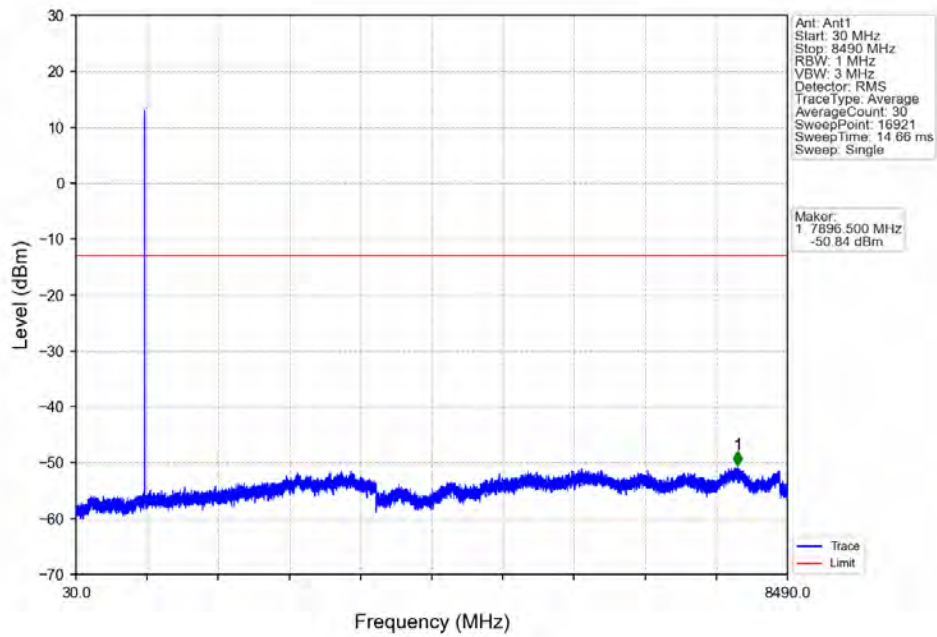
Band5 3MHz QPSK LCH 825.5MHz RB 15 0 NTNV



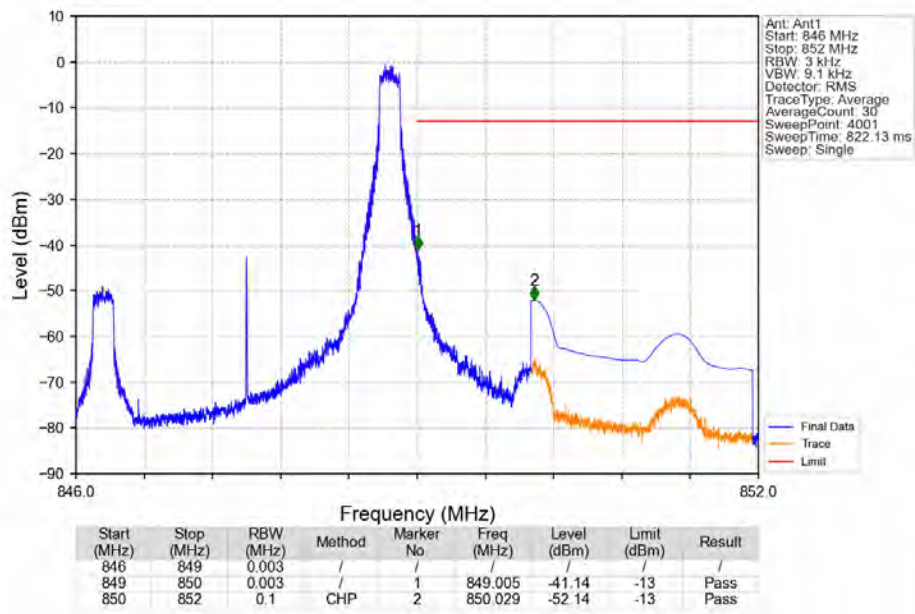
Band5 3MHz QPSK MCH 836.5MHz RB 1 0 NTNV

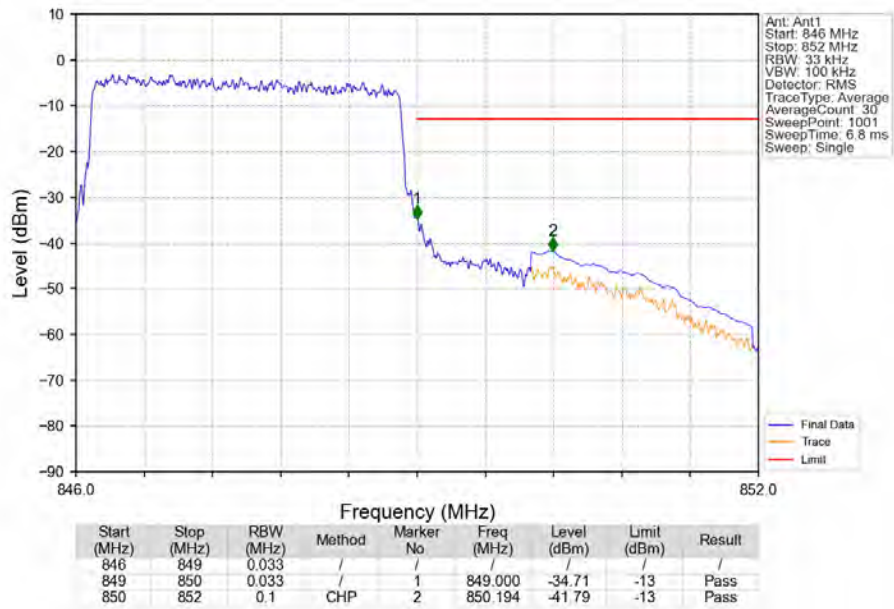


# Band5 3MHz QPSK HCH 847.5MHz RB 1 0 NTN



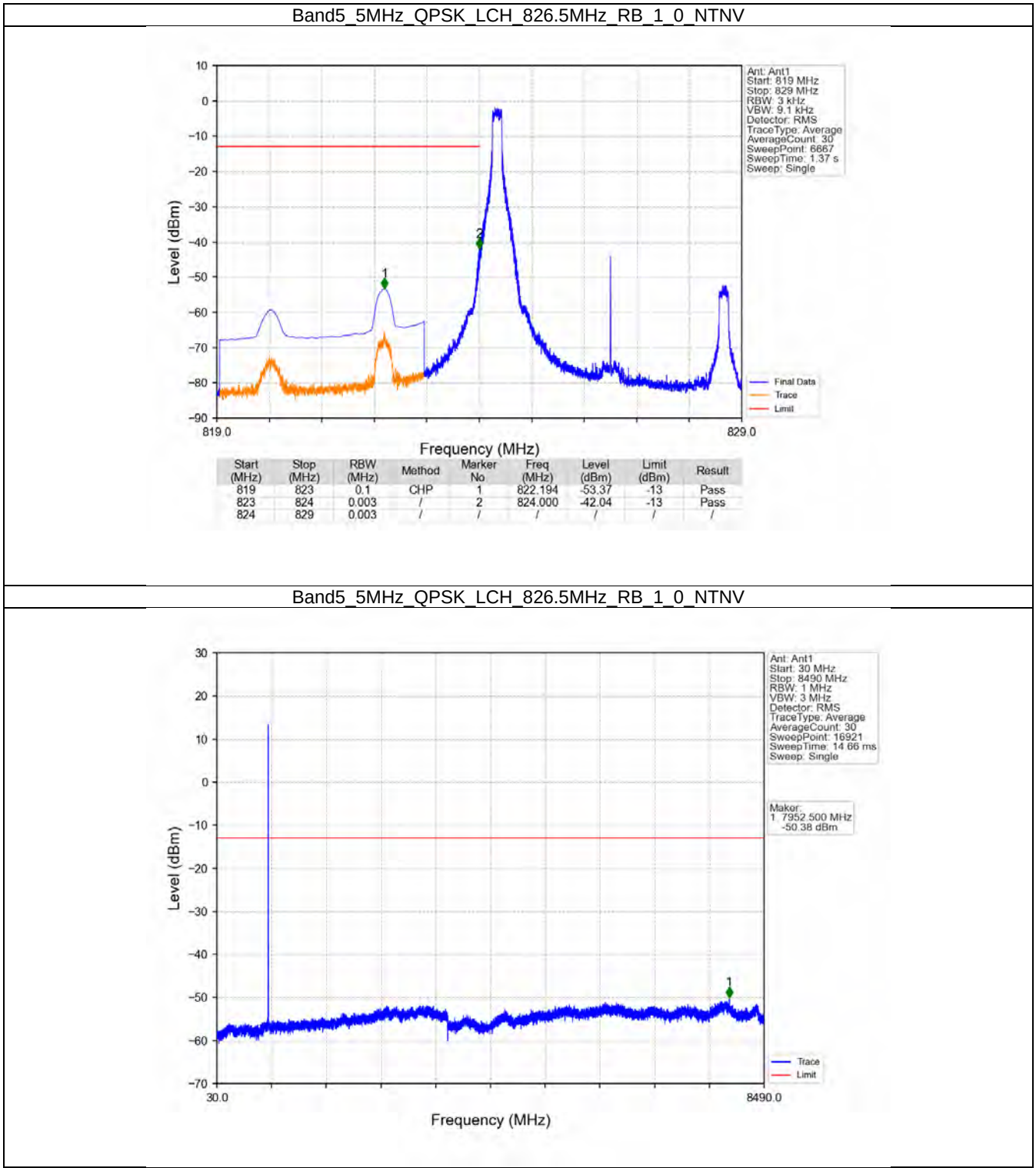
# Band5 3MHz QPSK HCH 847.5MHz RB 1 14 NTN



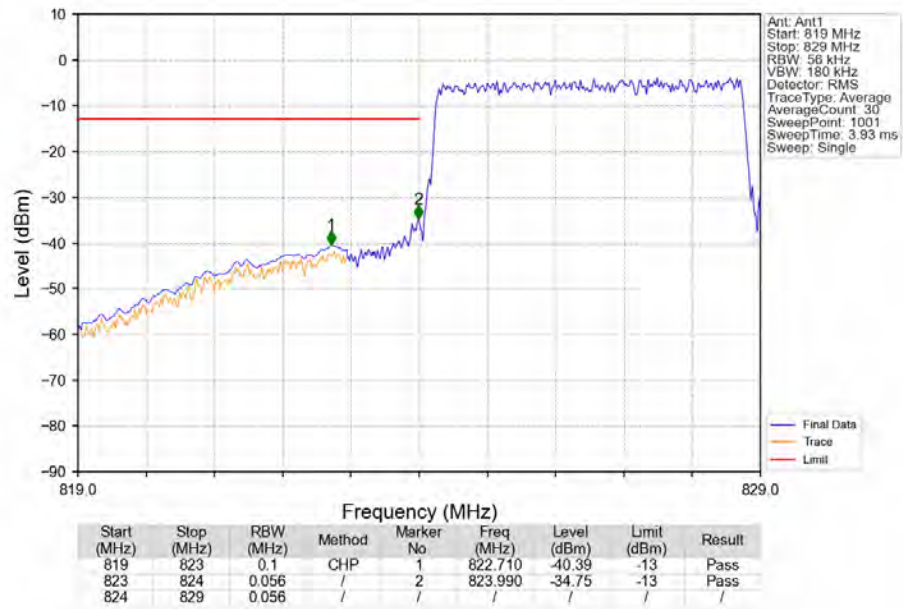




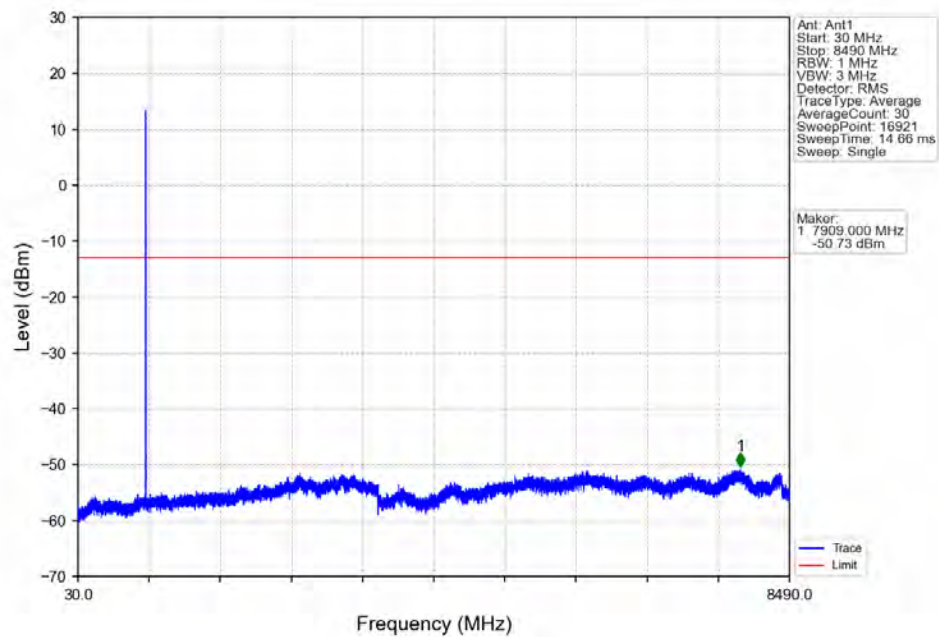
5.2.3 B5\_5MHz



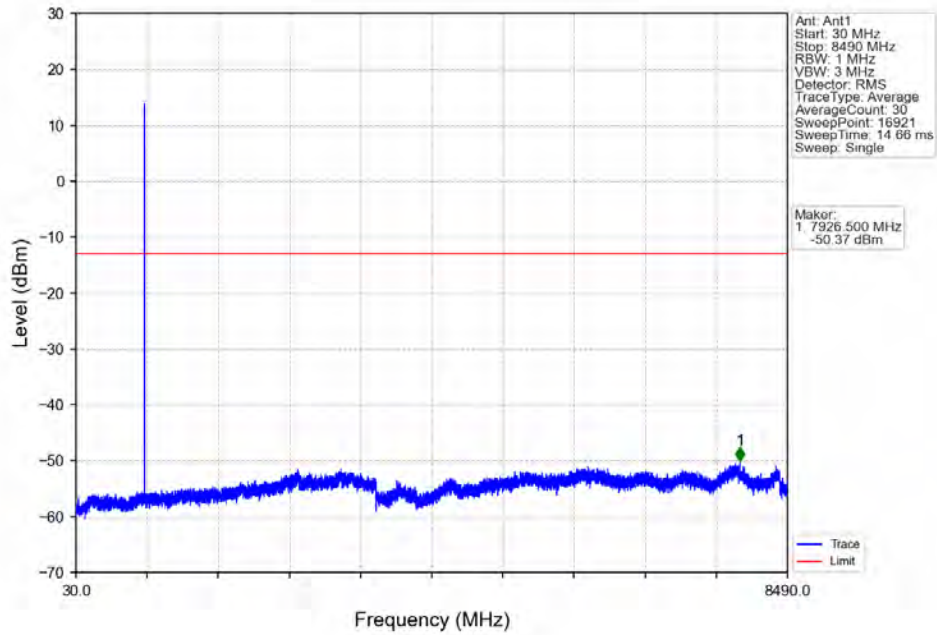
Band5 5MHz QPSK LCH 826.5MHz RB 25 0 NTNV



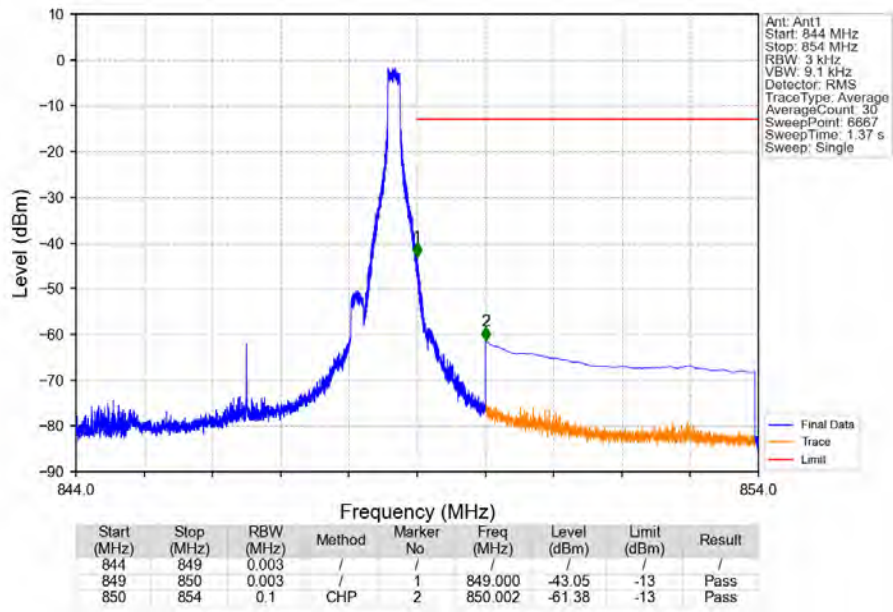
Band5 5MHz QPSK MCH 836.5MHz RB 1 0 NTNV

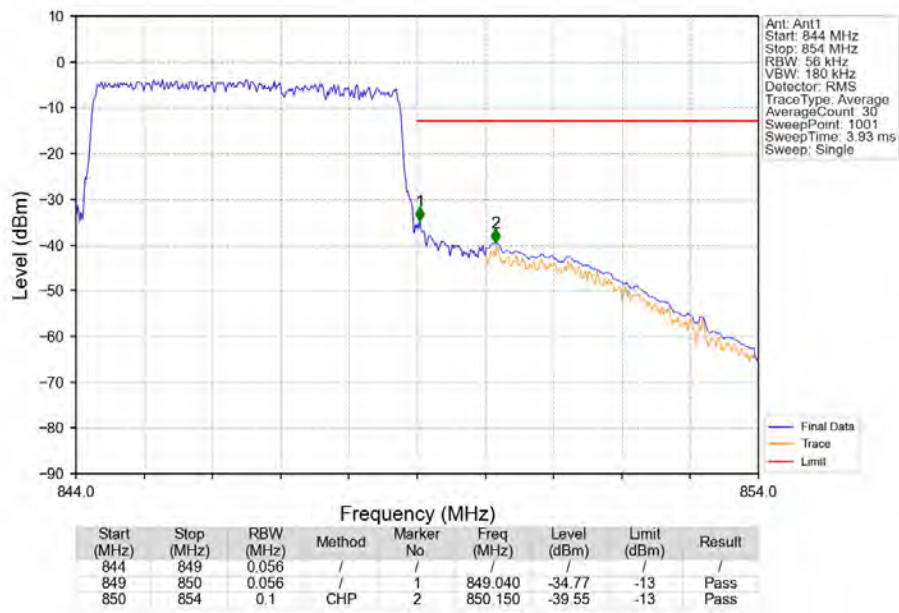


Band5 5MHz QPSK HCH 846.5MHz RB 1 0 NTN

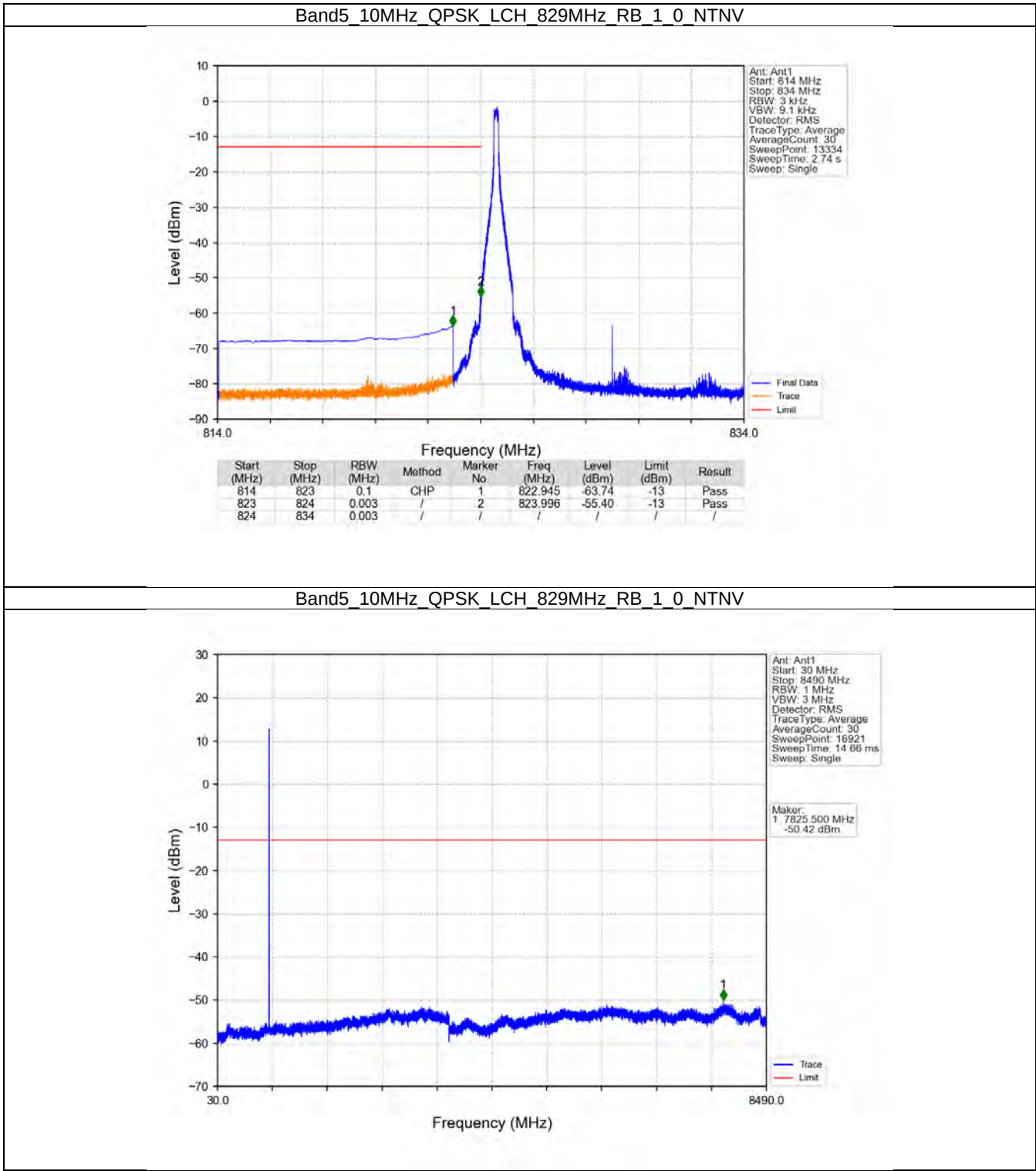


Band5 5MHz QPSK HCH 846.5MHz RB 1 24 NTN



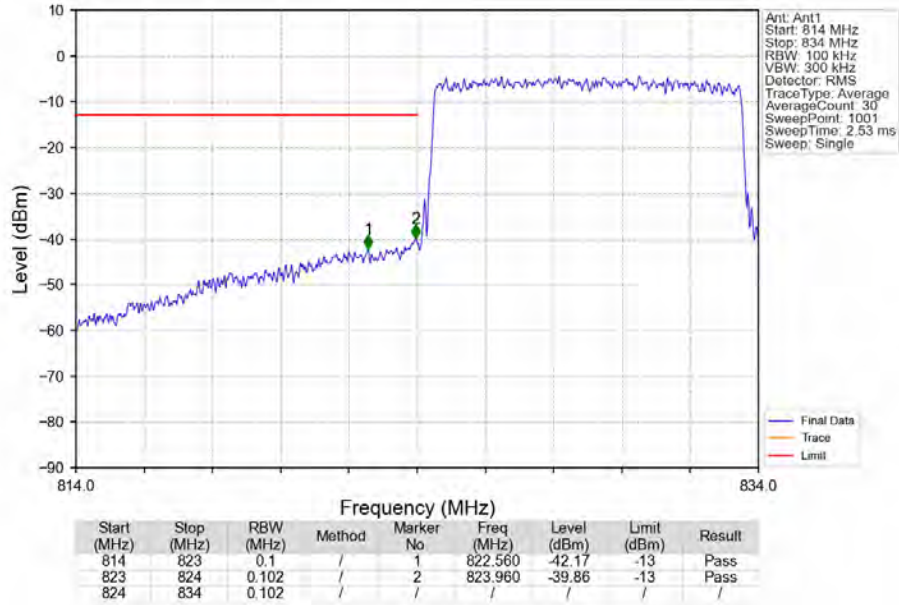


5.2.4 B5\_10MHz

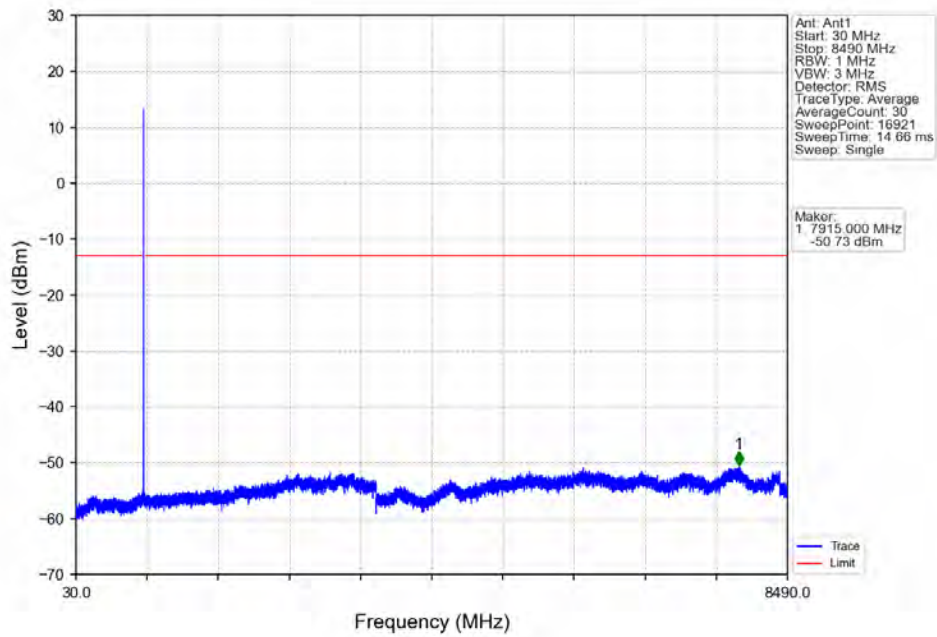




Band5 10MHz QPSK LCH 829MHz RB 50 0 NTN

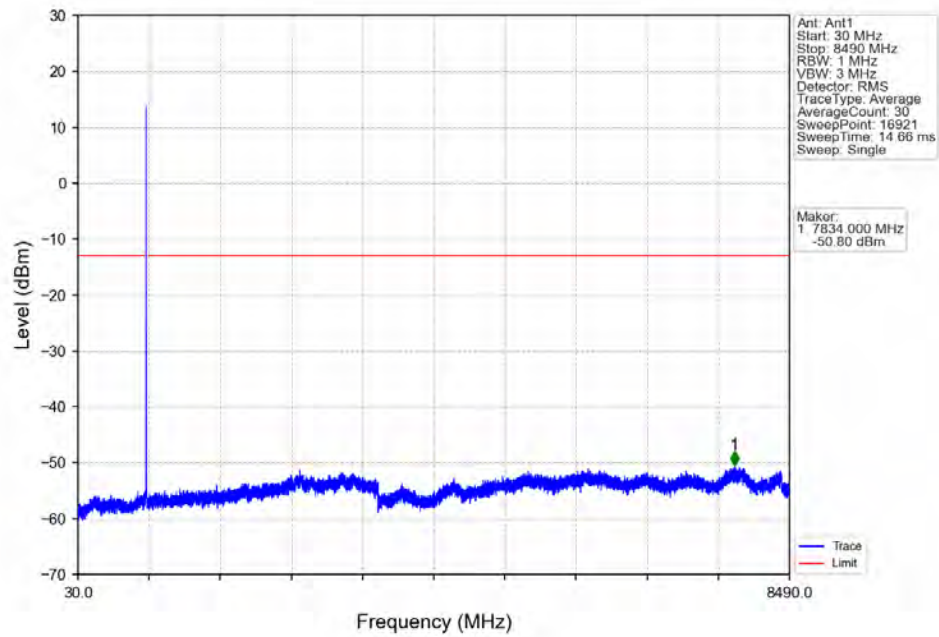


Band5 10MHz QPSK MCH 836.5MHz RB 1 0 NTN

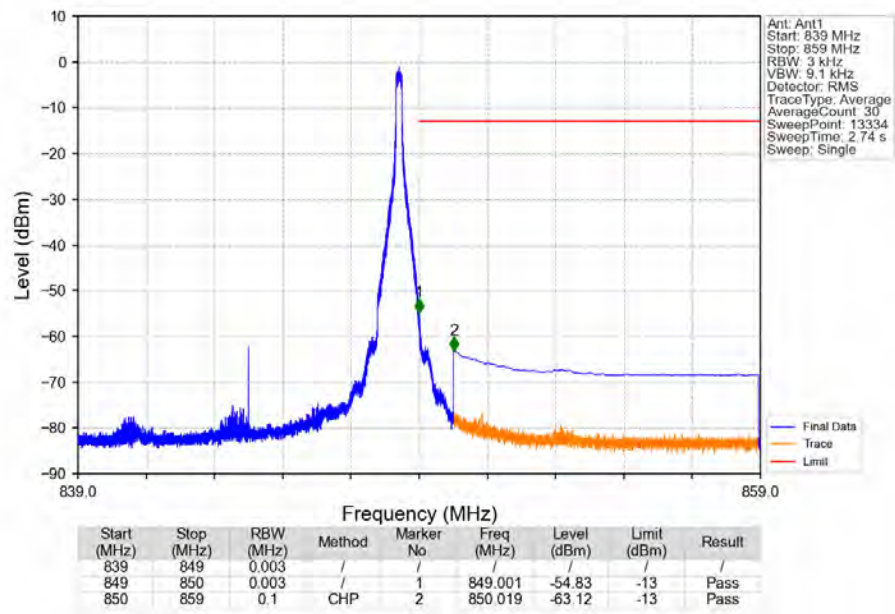


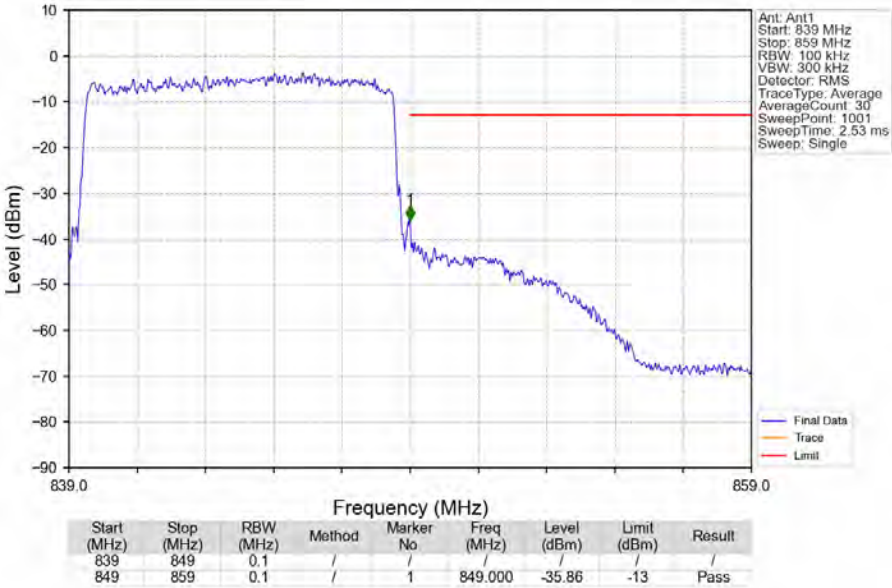


# Band5 10MHz QPSK HCH 844MHz RB 1 0 NTNV



# Band5 10MHz QPSK HCH 844MHz RB 1 49 NTNV





## Field Strength of Spurious Radiation

| LTE Band 5 ANT31-Low channel |            |             |                 |                  |                 |                    |                    |        |
|------------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)              | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1649.0                       | -69.14     | -13         | -56.14          | -72.02           | 2.62            | 5.5                | Horizontal         | Pass   |
| 2473.5                       | -69.75     | -13         | -56.75          | -72.45           | 3.06            | 5.76               | Horizontal         | Pass   |
| 3298.0                       | -67.37     | -13         | -54.37          | -71.73           | 3.3             | 7.66               | Horizontal         | Pass   |
| 1649.0                       | -69.52     | -13         | -56.52          | -72.4            | 2.62            | 5.5                | Vertical           | Pass   |
| 2473.5                       | -69.22     | -13         | -56.22          | -71.92           | 3.06            | 5.76               | Vertical           | Pass   |
| 3298.0                       | -67.09     | -13         | -54.09          | -71.45           | 3.3             | 7.66               | Vertical           | Pass   |

| LTE Band 5 ANT31-Middle channel |            |             |                 |                  |                 |                    |                    |        |
|---------------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)                 | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1664.0                          | -71.37     | -13         | -58.37          | -74.21           | 2.63            | 5.47               | Horizontal         | Pass   |
| 2496.0                          | -69.48     | -13         | -56.48          | -72.21           | 3.08            | 5.81               | Horizontal         | Pass   |
| 3328.0                          | -66.86     | -13         | -53.86          | -71.29           | 3.31            | 7.74               | Horizontal         | Pass   |
| 1664.0                          | -71.78     | -13         | -58.78          | -74.62           | 2.63            | 5.47               | Vertical           | Pass   |
| 2496.0                          | -68.93     | -13         | -55.93          | -71.66           | 3.08            | 5.81               | Vertical           | Pass   |
| 3328.0                          | -67.43     | -13         | -54.43          | -71.86           | 3.31            | 7.74               | Vertical           | Pass   |

| LTE Band 5 ANT31-High channel |            |             |                 |                  |                 |                    |                    |        |
|-------------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)               | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1679.0                        | -71.39     | -13         | -58.39          | -74.19           | 2.63            | 5.43               | Horizontal         | Pass   |
| 2518.5                        | -69.51     | -13         | -56.51          | -72.29           | 3.08            | 5.86               | Horizontal         | Pass   |
| 3358.0                        | -67.07     | -13         | -54.07          | -71.56           | 3.33            | 7.82               | Horizontal         | Pass   |
| 1679.0                        | -72.0      | -13         | -59.0           | -74.8            | 2.63            | 5.43               | Vertical           | Pass   |
| 2518.5                        | -68.92     | -13         | -55.92          | -71.7            | 3.08            | 5.86               | Vertical           | Pass   |
| 3358.0                        | -67.39     | -13         | -54.39          | -71.88           | 3.33            | 7.82               | Vertical           | Pass   |

| CA_5A_7A-Low channel |            |             |                 |                  |                 |                    |                    |        |
|----------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)      | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5002.0               | -62.43     | -13         | -49.43          | -68.0            | 4.57            | 10.14              | Horizontal         | Pass   |
| 7503.0               | -60.22     | -13         | -47.22          | -67.02           | 4.94            | 11.74              | Horizontal         | Pass   |
| 10004.0              | -56.74     | -13         | -43.74          | -64.31           | 5.46            | 13.03              | Horizontal         | Pass   |
| 5002.0               | -62.36     | -13         | -49.36          | -67.93           | 4.57            | 10.14              | Vertical           | Pass   |
| 7503.0               | -60.49     | -13         | -47.49          | -67.29           | 4.94            | 11.74              | Vertical           | Pass   |
| 10004.0              | -57.07     | -13         | -44.07          | -64.64           | 5.46            | 13.03              | Vertical           | Pass   |

| CA_5A_7A-Middle channel |            |             |                 |                  |                 |                    |                    |        |
|-------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)         | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5052.0                  | -61.89     | -13         | -48.89          | -67.47           | 4.59            | 10.17              | Horizontal         | Pass   |
| 7578.0                  | -60.41     | -13         | -47.41          | -67.29           | 4.95            | 11.83              | Horizontal         | Pass   |
| 10104.0                 | -56.96     | -13         | -43.96          | -64.53           | 5.48            | 13.05              | Horizontal         | Pass   |
| 5052.0                  | -63.23     | -13         | -50.23          | -68.81           | 4.59            | 10.17              | Vertical           | Pass   |
| 7578.0                  | -60.16     | -13         | -47.16          | -67.04           | 4.95            | 11.83              | Vertical           | Pass   |
| 10104.0                 | -56.83     | -13         | -43.83          | -64.4            | 5.48            | 13.05              | Vertical           | Pass   |

| CA_5A_7A-High channel |            |             |                 |                  |                 |                    |                    |        |
|-----------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)       | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5102.0                | -63.56     | -13         | -50.56          | -69.16           | 4.6             | 10.2               | Horizontal         | Pass   |
| 7653.0                | -60.42     | -13         | -47.42          | -67.39           | 4.95            | 11.92              | Horizontal         | Pass   |
| 10204.0               | -57.34     | -13         | -44.34          | -64.92           | 5.49            | 13.07              | Horizontal         | Pass   |
| 5102.0                | -63.08     | -13         | -50.08          | -68.68           | 4.6             | 10.2               | Vertical           | Pass   |
| 7653.0                | -60.09     | -13         | -47.09          | -67.06           | 4.95            | 11.92              | Vertical           | Pass   |
| 10204.0               | -57.35     | -13         | -44.35          | -64.93           | 5.49            | 13.07              | Vertical           | Pass   |

| CA_5A_66A-Low channel |            |             |                 |                  |                 |                    |                    |        |
|-----------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)       | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3422.0                | -66.43     | -13         | -53.43          | -71.05           | 3.36            | 7.98               | Horizontal         | Pass   |
| 5133.0                | -62.6      | -13         | -49.6           | -68.21           | 4.61            | 10.22              | Horizontal         | Pass   |
| 6844.0                | -60.44     | -13         | -47.44          | -66.47           | 4.9             | 10.93              | Horizontal         | Pass   |
| 3422.0                | -66.29     | -13         | -53.29          | -70.91           | 3.36            | 7.98               | Vertical           | Pass   |
| 5133.0                | -62.7      | -13         | -49.7           | -68.31           | 4.61            | 10.22              | Vertical           | Pass   |
| 6844.0                | -60.7      | -13         | -47.7           | -66.73           | 4.9             | 10.93              | Vertical           | Pass   |

| CA_5A_66A-Middle channel |            |             |                 |                  |                 |                    |                    |        |
|--------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)          | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3472.0                   | -67.41     | -13         | -54.41          | -72.12           | 3.39            | 8.1                | Horizontal         | Pass   |
| 5208.0                   | -63.29     | -13         | -50.29          | -68.92           | 4.64            | 10.27              | Horizontal         | Pass   |
| 6944.0                   | -61.46     | -13         | -48.46          | -67.61           | 4.91            | 11.06              | Horizontal         | Pass   |
| 3472.0                   | -67.5      | -13         | -54.5           | -72.21           | 3.39            | 8.1                | Vertical           | Pass   |
| 5208.0                   | -63.47     | -13         | -50.47          | -69.1            | 4.64            | 10.27              | Vertical           | Pass   |
| 6944.0                   | -60.84     | -13         | -47.84          | -66.99           | 4.91            | 11.06              | Vertical           | Pass   |

| CA_5A_66A-High channel |            |             |                 |                  |                 |                    |                    |        |
|------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)        | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3522.0                 | -66.75     | -13         | -53.75          | -71.53           | 3.42            | 8.2                | Horizontal         | Pass   |
| 5283.0                 | -62.85     | -13         | -49.85          | -68.51           | 4.66            | 10.32              | Horizontal         | Pass   |
| 7044.0                 | -61.28     | -13         | -48.28          | -67.54           | 4.92            | 11.18              | Horizontal         | Pass   |
| 3522.0                 | -66.84     | -13         | -53.84          | -71.62           | 3.42            | 8.2                | Vertical           | Pass   |
| 5283.0                 | -62.87     | -13         | -49.87          | -68.53           | 4.66            | 10.32              | Vertical           | Pass   |
| 7044.0                 | -61.09     | -13         | -48.09          | -67.35           | 4.92            | 11.18              | Vertical           | Pass   |

Remark:

- 1) The field strength is calculated by adding the S.G.Power, Antenna Gain & Cable Loss. The basic equation with a sample calculation is as follows:  

$$\text{EIRP} = \text{S.G. Power} + \text{Antenna Gain} - \text{Cable Loss}$$

$$\text{Over Limit} = \text{Limit} - \text{EIRP}$$
- 2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---