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# Appendix B.6

## LTE Band 5



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

### 1.1 B5\_1.4MHz\_ERPAnt0

#### 1.1.1 Test Result

| Band: 5 / Bandwidth: 1.4MHz / NTN/V |                 |               |        |                       |            |           |         |         |
|-------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                          | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                     |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                                | 824.7           | 1             | 0      | 23.73                 | 1.11       | 22.69     | <=38.45 | Pass    |
|                                     |                 |               | 2      | 23.92                 | 1.11       | 22.88     | <=38.45 | Pass    |
|                                     |                 |               | 5      | 23.73                 | 1.11       | 22.69     | <=38.45 | Pass    |
|                                     |                 | 3             | 0      | 23.82                 | 1.11       | 22.78     | <=38.45 | Pass    |
|                                     |                 |               | 2      | 23.81                 | 1.11       | 22.77     | <=38.45 | Pass    |
|                                     |                 |               | 3      | 23.80                 | 1.11       | 22.76     | <=38.45 | Pass    |
|                                     |                 | 6             | 0      | 22.76                 | 1.11       | 21.72     | <=38.45 | Pass    |
|                                     | 836.5           | 1             | 0      | 23.87                 | 1.11       | 22.83     | <=38.45 | Pass    |
|                                     |                 |               | 2      | 23.98                 | 1.11       | 22.94     | <=38.45 | Pass    |
|                                     |                 |               | 5      | 23.83                 | 1.11       | 22.79     | <=38.45 | Pass    |
|                                     |                 | 3             | 0      | 23.95                 | 1.11       | 22.91     | <=38.45 | Pass    |
|                                     |                 |               | 2      | 23.97                 | 1.11       | 22.93     | <=38.45 | Pass    |
|                                     |                 |               | 3      | 23.96                 | 1.11       | 22.92     | <=38.45 | Pass    |
|                                     |                 | 6             | 0      | 22.93                 | 1.11       | 21.89     | <=38.45 | Pass    |
|                                     | 848.3           | 1             | 0      | 23.81                 | 1.11       | 22.77     | <=38.45 | Pass    |
|                                     |                 |               | 2      | 23.98                 | 1.11       | 22.94     | <=38.45 | Pass    |
|                                     |                 |               | 5      | 23.78                 | 1.11       | 22.74     | <=38.45 | Pass    |
|                                     |                 | 3             | 0      | 23.90                 | 1.11       | 22.86     | <=38.45 | Pass    |
|                                     |                 |               | 2      | 23.89                 | 1.11       | 22.85     | <=38.45 | Pass    |
|                                     |                 |               | 3      | 23.87                 | 1.11       | 22.83     | <=38.45 | Pass    |
|                                     |                 | 6             | 0      | 22.87                 | 1.11       | 21.83     | <=38.45 | Pass    |
| 16QAM                               | 824.7           | 1             | 0      | 22.79                 | 1.11       | 21.75     | <=38.45 | Pass    |
|                                     |                 |               | 2      | 22.95                 | 1.11       | 21.91     | <=38.45 | Pass    |
|                                     |                 |               | 5      | 22.84                 | 1.11       | 21.80     | <=38.45 | Pass    |
|                                     |                 | 3             | 0      | 22.79                 | 1.11       | 21.75     | <=38.45 | Pass    |
|                                     |                 |               | 2      | 22.80                 | 1.11       | 21.76     | <=38.45 | Pass    |
|                                     |                 |               | 3      | 22.78                 | 1.11       | 21.74     | <=38.45 | Pass    |
|                                     |                 | 6             | 0      | 21.85                 | 1.11       | 20.81     | <=38.45 | Pass    |
|                                     | 836.5           | 1             | 0      | 23.06                 | 1.11       | 22.02     | <=38.45 | Pass    |
|                                     |                 |               | 2      | 23.24                 | 1.11       | 22.20     | <=38.45 | Pass    |
|                                     |                 |               | 5      | 23.05                 | 1.11       | 22.01     | <=38.45 | Pass    |
|                                     |                 | 3             | 0      | 23.00                 | 1.11       | 21.96     | <=38.45 | Pass    |
|                                     |                 |               | 2      | 23.04                 | 1.11       | 22.00     | <=38.45 | Pass    |
|                                     |                 |               | 3      | 23.02                 | 1.11       | 21.98     | <=38.45 | Pass    |
|                                     |                 | 6             | 0      | 21.88                 | 1.11       | 20.84     | <=38.45 | Pass    |
|                                     | 848.3           | 1             | 0      | 23.09                 | 1.11       | 22.05     | <=38.45 | Pass    |
|                                     |                 |               | 2      | 23.23                 | 1.11       | 22.19     | <=38.45 | Pass    |
|                                     |                 |               | 5      | 23.05                 | 1.11       | 22.01     | <=38.45 | Pass    |
|                                     |                 | 3             | 0      | 23.00                 | 1.11       | 21.96     | <=38.45 | Pass    |



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|--|---|---|-------|------|-------|---------|------|
|  |   | 2 | 22.98 | 1.11 | 21.94 | <=38.45 | Pass |
|  |   | 3 | 22.94 | 1.11 | 21.90 | <=38.45 | Pass |
|  | 6 | 0 | 21.89 | 1.11 | 20.85 | <=38.45 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 1.2 B5\_3MHz\_ERP

### 1.2.1 Test Result

| 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      | 23.81                 | 1.11       | 22.77     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 23.79                 | 1.11       | 22.75     | <=38.45 | Pass    |
|                                  |                 |               | 14     | 23.78                 | 1.11       | 22.74     | <=38.45 | Pass    |
|                                  |                 | 8             | 0      | 22.75                 | 1.11       | 21.71     | <=38.45 | Pass    |
|                                  |                 |               | 4      | 22.84                 | 1.11       | 21.80     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 22.78                 | 1.11       | 21.74     | <=38.45 | Pass    |
|                                  |                 | 15            | 0      | 22.71                 | 1.11       | 21.67     | <=38.45 | Pass    |
|                                  | 836.5           | 1             | 0      | 23.91                 | 1.11       | 22.87     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 23.96                 | 1.11       | 22.92     | <=38.45 | Pass    |
|                                  |                 |               | 14     | 23.99                 | 1.11       | 22.95     | <=38.45 | Pass    |
|                                  |                 | 8             | 0      | 22.90                 | 1.11       | 21.86     | <=38.45 | Pass    |
|                                  |                 |               | 4      | 22.99                 | 1.11       | 21.95     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 22.94                 | 1.11       | 21.90     | <=38.45 | Pass    |
|                                  |                 | 15            | 0      | 22.85                 | 1.11       | 21.81     | <=38.45 | Pass    |
|                                  | 847.5           | 1             | 0      | 23.90                 | 1.11       | 22.86     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 23.89                 | 1.11       | 22.85     | <=38.45 | Pass    |
|                                  |                 |               | 14     | 23.86                 | 1.11       | 22.82     | <=38.45 | Pass    |
|                                  |                 | 8             | 0      | 22.87                 | 1.11       | 21.83     | <=38.45 | Pass    |
|                                  |                 |               | 4      | 22.95                 | 1.11       | 21.91     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 22.86                 | 1.11       | 21.82     | <=38.45 | Pass    |
|                                  |                 | 15            | 0      | 22.86                 | 1.11       | 21.82     | <=38.45 | Pass    |
| 16QAM                            | 825.5           | 1             | 0      | 22.92                 | 1.11       | 21.88     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 22.99                 | 1.11       | 21.95     | <=38.45 | Pass    |
|                                  |                 |               | 14     | 22.99                 | 1.11       | 21.95     | <=38.45 | Pass    |
|                                  |                 | 8             | 0      | 21.93                 | 1.11       | 20.89     | <=38.45 | Pass    |
|                                  |                 |               | 4      | 22.02                 | 1.11       | 20.98     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 21.98                 | 1.11       | 20.94     | <=38.45 | Pass    |
|                                  |                 | 15            | 0      | 21.76                 | 1.11       | 20.72     | <=38.45 | Pass    |
|                                  | 836.5           | 1             | 0      | 22.99                 | 1.11       | 21.95     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 23.01                 | 1.11       | 21.97     | <=38.45 | Pass    |
|                                  |                 |               | 14     | 22.98                 | 1.11       | 21.94     | <=38.45 | Pass    |
|                                  |                 | 8             | 0      | 22.05                 | 1.11       | 21.01     | <=38.45 | Pass    |
|                                  |                 |               | 4      | 22.12                 | 1.11       | 21.08     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 22.08                 | 1.11       | 21.04     | <=38.45 | Pass    |
|                                  |                 | 15            | 0      | 21.93                 | 1.11       | 20.89     | <=38.45 | Pass    |



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|--|-------|----|----|-------|------|-------|---------|------|
|  | 847.5 | 1  | 0  | 23.13 | 1.11 | 22.09 | <=38.45 | Pass |
|  |       |    | 7  | 23.08 | 1.11 | 22.04 | <=38.45 | Pass |
|  |       |    | 14 | 23.00 | 1.11 | 21.96 | <=38.45 | Pass |
|  |       | 8  | 0  | 21.90 | 1.11 | 20.86 | <=38.45 | Pass |
|  |       |    | 4  | 21.94 | 1.11 | 20.90 | <=38.45 | Pass |
|  |       |    | 7  | 21.91 | 1.11 | 20.87 | <=38.45 | Pass |
|  |       | 15 | 0  | 21.89 | 1.11 | 20.85 | <=38.45 | Pass |
|  |       |    |    |       |      |       |         |      |

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 1.3 B5\_5MHz\_ERP

### 1.3.1 Test Result

| Band: 5 / Bandwidth: 5MHz / NTNV |                 |               |        |                       |            |           |         |         |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                  |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                             | 826.5           | 1             | 0      | 23.67                 | 1.11       | 22.63     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 23.86                 | 1.11       | 22.82     | <=38.45 | Pass    |
|                                  |                 |               | 24     | 23.73                 | 1.11       | 22.69     | <=38.45 | Pass    |
|                                  |                 | 12            | 0      | 22.71                 | 1.11       | 21.67     | <=38.45 | Pass    |
|                                  |                 |               | 6      | 22.85                 | 1.11       | 21.81     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 22.81                 | 1.11       | 21.77     | <=38.45 | Pass    |
|                                  |                 | 25            | 0      | 22.82                 | 1.11       | 21.78     | <=38.45 | Pass    |
|                                  |                 |               |        |                       |            |           |         |         |
|                                  |                 |               |        |                       |            |           |         |         |
|                                  | 836.5           | 1             | 0      | 23.84                 | 1.11       | 22.80     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 23.98                 | 1.11       | 22.94     | <=38.45 | Pass    |
|                                  |                 |               | 24     | 23.87                 | 1.11       | 22.83     | <=38.45 | Pass    |
|                                  |                 | 12            | 0      | 22.93                 | 1.11       | 21.89     | <=38.45 | Pass    |
|                                  |                 |               | 6      | 22.96                 | 1.11       | 21.92     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 22.94                 | 1.11       | 21.90     | <=38.45 | Pass    |
|                                  |                 | 25            | 0      | 22.92                 | 1.11       | 21.88     | <=38.45 | Pass    |
|                                  |                 |               |        |                       |            |           |         |         |
|                                  |                 |               |        |                       |            |           |         |         |
|                                  | 846.5           | 1             | 0      | 23.90                 | 1.11       | 22.86     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 23.95                 | 1.11       | 22.91     | <=38.45 | Pass    |
|                                  |                 |               | 24     | 23.80                 | 1.11       | 22.76     | <=38.45 | Pass    |
|                                  |                 | 12            | 0      | 22.95                 | 1.11       | 21.91     | <=38.45 | Pass    |
|                                  |                 |               | 6      | 22.94                 | 1.11       | 21.90     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 22.85                 | 1.11       | 21.81     | <=38.45 | Pass    |
|                                  |                 | 25            | 0      | 22.91                 | 1.11       | 21.87     | <=38.45 | Pass    |
|                                  |                 |               |        |                       |            |           |         |         |
|                                  |                 |               |        |                       |            |           |         |         |
| 16QAM                            | 826.5           | 1             | 0      | 22.88                 | 1.11       | 21.84     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 23.04                 | 1.11       | 22.00     | <=38.45 | Pass    |
|                                  |                 |               | 24     | 23.00                 | 1.11       | 21.96     | <=38.45 | Pass    |
|                                  |                 | 12            | 0      | 21.77                 | 1.11       | 20.73     | <=38.45 | Pass    |
|                                  |                 |               | 6      | 21.89                 | 1.11       | 20.85     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 21.87                 | 1.11       | 20.83     | <=38.45 | Pass    |
|                                  |                 | 25            | 0      | 21.83                 | 1.11       | 20.79     | <=38.45 | Pass    |
|                                  |                 |               |        |                       |            |           |         |         |
|                                  |                 |               |        |                       |            |           |         |         |
|                                  | 836.5           | 1             | 0      | 23.00                 | 1.11       | 21.96     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 23.16                 | 1.11       | 22.12     | <=38.45 | Pass    |
|                                  |                 |               | 24     | 23.02                 | 1.11       | 21.98     | <=38.45 | Pass    |



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|  | 12                                           | 0  | 21.84 | 1.11 | 20.80 | <=38.45 | Pass |
|  |                                              | 6  | 21.94 | 1.11 | 20.90 | <=38.45 | Pass |
|  |                                              | 13 | 21.90 | 1.11 | 20.86 | <=38.45 | Pass |
|  | 25                                           | 0  | 21.92 | 1.11 | 20.88 | <=38.45 | Pass |
|  | 1                                            | 0  | 23.08 | 1.11 | 22.04 | <=38.45 | Pass |
|  |                                              | 13 | 23.20 | 1.11 | 22.16 | <=38.45 | Pass |
|  |                                              | 24 | 23.01 | 1.11 | 21.97 | <=38.45 | Pass |
|  | 12                                           | 0  | 21.84 | 1.11 | 20.80 | <=38.45 | Pass |
|  |                                              | 6  | 21.88 | 1.11 | 20.84 | <=38.45 | Pass |
|  |                                              | 13 | 21.75 | 1.11 | 20.71 | <=38.45 | Pass |
|  | 25                                           | 0  | 21.90 | 1.11 | 20.86 | <=38.45 | Pass |
|  | Note1: ERP=Conducted Power+Antenna Gain-2.15 |    |       |      |       |         |      |

## 1.4 B5\_10MHz\_ERP

### 1.4.1 Test Result

| Band: 5 / Bandwidth: 10MHz / NTNV |                 |               |        |                       |            |           |         |         |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                   |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                              | 829             | 1             | 0      | 23.75                 | 1.11       | 22.71     | <=38.45 | Pass    |
|                                   |                 |               | 25     | 23.96                 | 1.11       | 22.92     | <=38.45 | Pass    |
|                                   |                 |               | 49     | 23.77                 | 1.11       | 22.73     | <=38.45 | Pass    |
|                                   |                 | 25            | 0      | 22.87                 | 1.11       | 21.83     | <=38.45 | Pass    |
|                                   |                 |               | 13     | 22.88                 | 1.11       | 21.84     | <=38.45 | Pass    |
|                                   |                 |               | 25     | 22.84                 | 1.11       | 21.80     | <=38.45 | Pass    |
|                                   |                 | 50            | 0      | 22.86                 | 1.11       | 21.82     | <=38.45 | Pass    |
|                                   | 836.5           | 1             | 0      | 23.91                 | 1.11       | 22.87     | <=38.45 | Pass    |
|                                   |                 |               | 25     | 24.08                 | 1.11       | 23.04     | <=38.45 | Pass    |
|                                   |                 |               | 49     | 23.90                 | 1.11       | 22.86     | <=38.45 | Pass    |
|                                   |                 | 25            | 0      | 22.93                 | 1.11       | 21.89     | <=38.45 | Pass    |
|                                   |                 |               | 13     | 22.95                 | 1.11       | 21.91     | <=38.45 | Pass    |
|                                   |                 |               | 25     | 22.96                 | 1.11       | 21.92     | <=38.45 | Pass    |
|                                   |                 | 50            | 0      | 22.97                 | 1.11       | 21.93     | <=38.45 | Pass    |
|                                   | 844             | 1             | 0      | 23.90                 | 1.11       | 22.86     | <=38.45 | Pass    |
|                                   |                 |               | 25     | 24.01                 | 1.11       | 22.97     | <=38.45 | Pass    |
|                                   |                 |               | 49     | 23.82                 | 1.11       | 22.78     | <=38.45 | Pass    |
|                                   |                 | 25            | 0      | 22.89                 | 1.11       | 21.85     | <=38.45 | Pass    |
|                                   |                 |               | 13     | 22.95                 | 1.11       | 21.91     | <=38.45 | Pass    |
|                                   |                 |               | 25     | 22.84                 | 1.11       | 21.80     | <=38.45 | Pass    |
|                                   |                 | 50            | 0      | 22.87                 | 1.11       | 21.83     | <=38.45 | Pass    |
| 16QAM                             | 829             | 1             | 0      | 22.94                 | 1.11       | 21.90     | <=38.45 | Pass    |
|                                   |                 |               | 25     | 23.19                 | 1.11       | 22.15     | <=38.45 | Pass    |
|                                   |                 |               | 49     | 22.97                 | 1.11       | 21.93     | <=38.45 | Pass    |
|                                   |                 | 25            | 0      | 21.90                 | 1.11       | 20.86     | <=38.45 | Pass    |
|                                   |                 |               | 13     | 21.87                 | 1.11       | 20.83     | <=38.45 | Pass    |
|                                   |                 |               | 25     | 21.90                 | 1.11       | 20.86     | <=38.45 | Pass    |



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|  |       |    |    |       |      |       |         |      |
|--|-------|----|----|-------|------|-------|---------|------|
|  | 836.5 | 50 | 0  | 21.84 | 1.11 | 20.80 | <=38.45 | Pass |
|  |       | 1  | 0  | 22.94 | 1.11 | 21.90 | <=38.45 | Pass |
|  |       |    | 25 | 23.15 | 1.11 | 22.11 | <=38.45 | Pass |
|  |       |    | 49 | 22.93 | 1.11 | 21.89 | <=38.45 | Pass |
|  |       |    | 0  | 21.99 | 1.11 | 20.95 | <=38.45 | Pass |
|  |       | 25 | 13 | 22.01 | 1.11 | 20.97 | <=38.45 | Pass |
|  |       |    | 25 | 22.00 | 1.11 | 20.96 | <=38.45 | Pass |
|  |       | 50 | 0  | 21.95 | 1.11 | 20.91 | <=38.45 | Pass |
|  | 844   | 1  | 0  | 23.12 | 1.11 | 22.08 | <=38.45 | Pass |
|  |       |    | 25 | 23.21 | 1.11 | 22.17 | <=38.45 | Pass |
|  |       |    | 49 | 23.01 | 1.11 | 21.97 | <=38.45 | Pass |
|  |       |    | 0  | 21.88 | 1.11 | 20.84 | <=38.45 | Pass |
|  |       | 25 | 13 | 21.95 | 1.11 | 20.91 | <=38.45 | Pass |
|  |       |    | 25 | 21.84 | 1.11 | 20.80 | <=38.45 | Pass |
|  |       |    | 0  | 21.81 | 1.11 | 20.77 | <=38.45 | Pass |
|  |       | 50 | 0  | 21.81 | 1.11 | 20.77 | <=38.45 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15



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## 2. Frequency Stability

### 2.4 B5\_10MHz

#### 2.4.1 Test Result

| 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         | 8             | -1.397           | -0.0017               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -0.742           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 16            | -5.744           | -0.0069               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -1.709           | -0.0021               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -5.710           | -0.0069               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -1.878           | -0.0023               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | -2.594           | -0.0031               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -5.604           | -0.0068               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -4.455           | -0.0054               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | -6.438           | -0.0078               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -6.741           | -0.0081               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -8.042           | -0.0096               | -2.5 to 2.5 | Pass    |
|                            | 836.5           | 50            | 0      | 20         | 8             | -8.042           | -0.0096               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -8.462           | -0.0101               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 16            | -8.372           | -0.0100               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -8.190           | -0.0098               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -9.253           | -0.0111               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -9.042           | -0.0108               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | -10.605          | -0.0127               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -7.302           | -0.0087               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -6.886           | -0.0082               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | -6.626           | -0.0079               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -7.610           | -0.0091               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -6.752           | -0.0080               | -2.5 to 2.5 | Pass    |
|                            | 844             | 50            | 0      | 20         | 8             | -6.752           | -0.0080               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -6.669           | -0.0079               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 16            | -5.887           | -0.0070               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -8.277           | -0.0098               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -8.020           | -0.0095               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -10.490          | -0.0124               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | -9.341           | -0.0111               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -8.081           | -0.0096               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -8.451           | -0.0100               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | -9.348           | -0.0111               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -8.642           | -0.0102               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -6.980           | -0.0084               | -2.5 to 2.5 | Pass    |
| 16QAM                      | 829             | 50            | 0      | 20         | 8             | -6.980           | -0.0084               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -7.326           | -0.0088               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 16            | -2.998           | -0.0036               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -8.081           | -0.0097               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -6.933           | -0.0084               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -7.166           | -0.0086               | -2.5 to 2.5 | Pass    |



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|  |       |    |   |     |    |         |         |             |      |
|--|-------|----|---|-----|----|---------|---------|-------------|------|
|  |       |    |   | 0   | 12 | -5.072  | -0.0061 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 12 | -6.335  | -0.0076 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 12 | -7.054  | -0.0085 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 12 | -5.737  | -0.0069 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 12 | -8.303  | -0.0100 | -2.5 to 2.5 | Pass |
|  | 836.5 | 50 | 0 | 20  | 8  | -6.907  | -0.0083 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12 | -7.760  | -0.0093 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 16 | -9.438  | -0.0113 | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 12 | -9.716  | -0.0116 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12 | -9.668  | -0.0116 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12 | -9.414  | -0.0113 | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 12 | -8.888  | -0.0106 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12 | -7.441  | -0.0089 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12 | -7.179  | -0.0086 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 12 | -5.588  | -0.0067 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12 | -6.581  | -0.0079 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12 | -6.581  | -0.0079 | -2.5 to 2.5 | Pass |
|  | 844   | 50 | 0 | 20  | 8  | -6.996  | -0.0083 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12 | -6.294  | -0.0075 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 16 | -10.494 | -0.0124 | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 12 | -8.206  | -0.0097 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12 | -8.872  | -0.0105 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12 | -8.526  | -0.0101 | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 12 | -7.920  | -0.0094 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12 | -5.867  | -0.0070 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12 | -8.311  | -0.0098 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 12 | -7.272  | -0.0086 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12 | -8.294  | -0.0098 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12 | -8.294  | -0.0098 | -2.5 to 2.5 | Pass |

## 3. 99% & 26dB Bandwidth

### 3.1 Band5\_OBW

#### 3.1.1 Test Result

| Band: 5 / NTNV  |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 1.4             | QPSK       | 824.7           | 6             | 0      | 1.107                        | /     | Pass    |
|                 |            | 836.5           | 6             | 0      | 1.112                        | /     | Pass    |
|                 |            | 848.3           | 6             | 0      | 1.110                        | /     | Pass    |
|                 | 16QAM      | 824.7           | 6             | 0      | 1.109                        | /     | Pass    |
|                 |            | 836.5           | 6             | 0      | 1.108                        | /     | Pass    |
|                 |            | 848.3           | 6             | 0      | 1.112                        | /     | Pass    |
| 3               | QPSK       | 825.5           | 15            | 0      | 2.719                        | /     | Pass    |
|                 |            | 836.5           | 15            | 0      | 2.730                        | /     | Pass    |
|                 |            | 847.5           | 15            | 0      | 2.725                        | /     | Pass    |
|                 | 16QAM      | 825.5           | 15            | 0      | 2.715                        | /     | Pass    |



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|    |       |       |    |   |       |   |      |
|----|-------|-------|----|---|-------|---|------|
|    |       | 836.5 | 15 | 0 | 2.722 | / | Pass |
|    |       | 847.5 | 15 | 0 | 2.723 | / | Pass |
| 5  | QPSK  | 826.5 | 25 | 0 | 4.574 | / | Pass |
|    |       | 836.5 | 25 | 0 | 4.570 | / | Pass |
|    |       | 846.5 | 25 | 0 | 4.571 | / | Pass |
|    | 16QAM | 826.5 | 25 | 0 | 4.568 | / | Pass |
|    |       | 836.5 | 25 | 0 | 4.604 | / | Pass |
|    |       | 846.5 | 25 | 0 | 4.580 | / | Pass |
| 10 | QPSK  | 829   | 50 | 0 | 9.068 | / | Pass |
|    |       | 836.5 | 50 | 0 | 9.062 | / | Pass |
|    |       | 844   | 50 | 0 | 9.089 | / | Pass |
|    | 16QAM | 829   | 50 | 0 | 9.040 | / | Pass |
|    |       | 836.5 | 50 | 0 | 9.070 | / | Pass |
|    |       | 844   | 50 | 0 | 9.094 | / | Pass |



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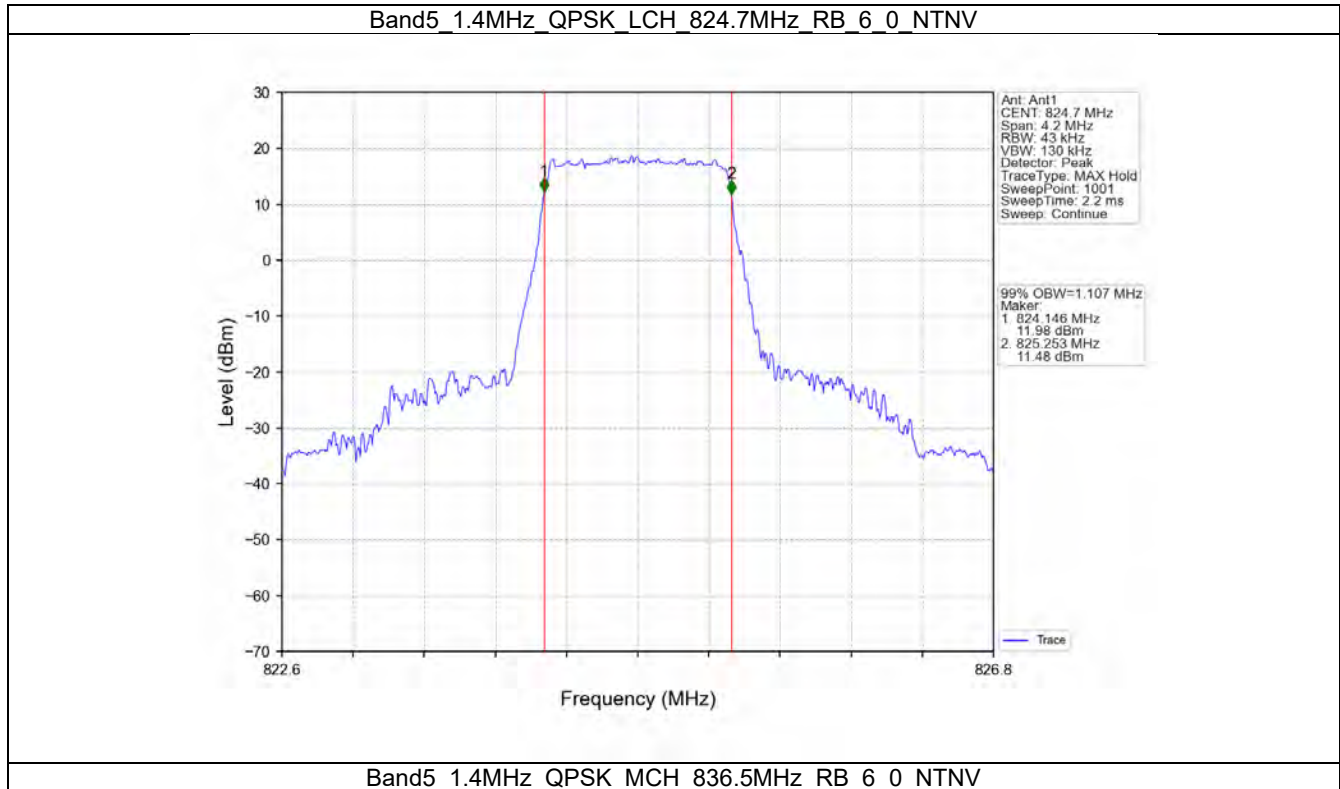
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### 3.1.2 Test Graph



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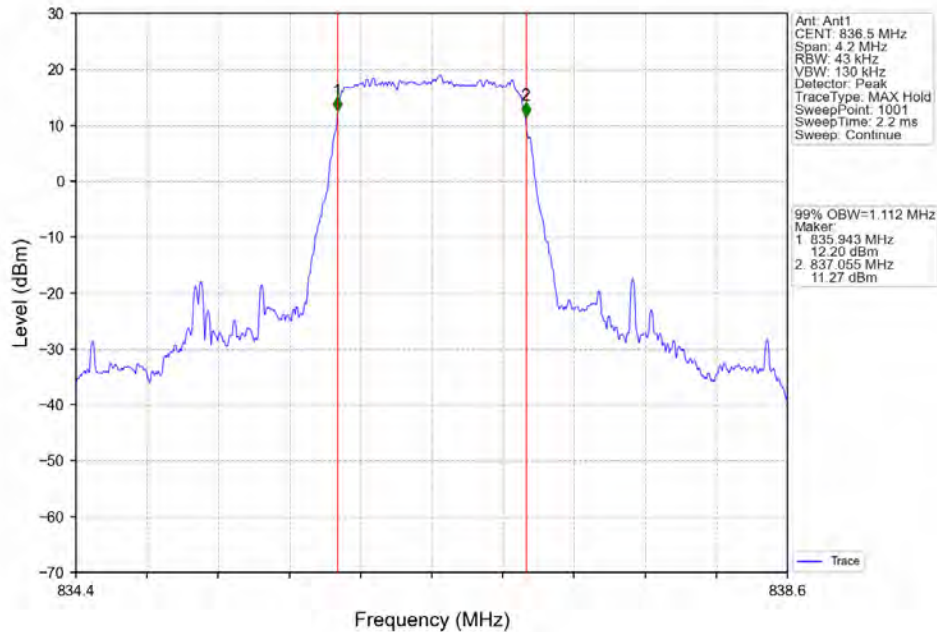
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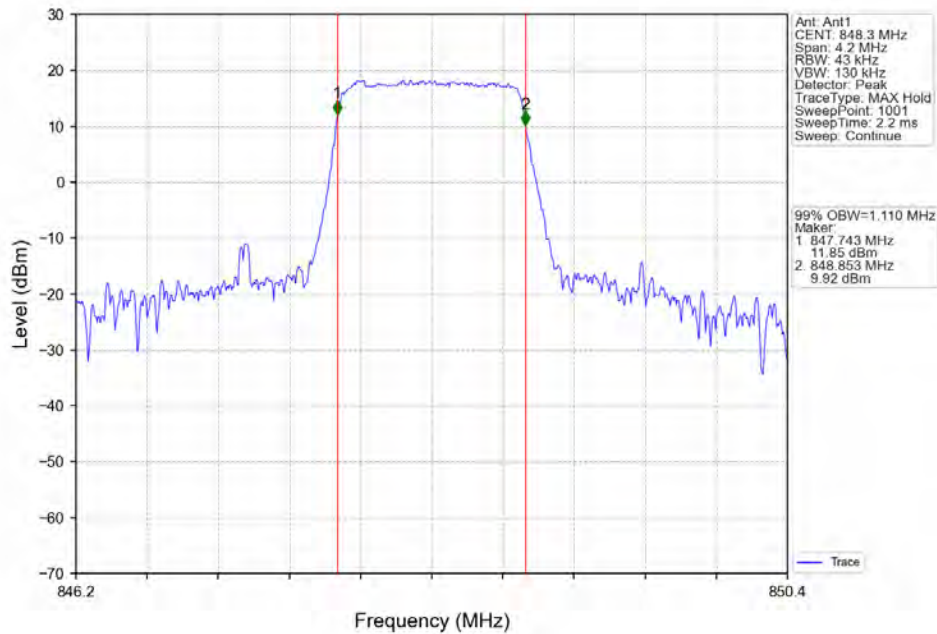
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Band5 1.4MHz QPSK HCH 848.3MHz RB 6 0 NTN



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



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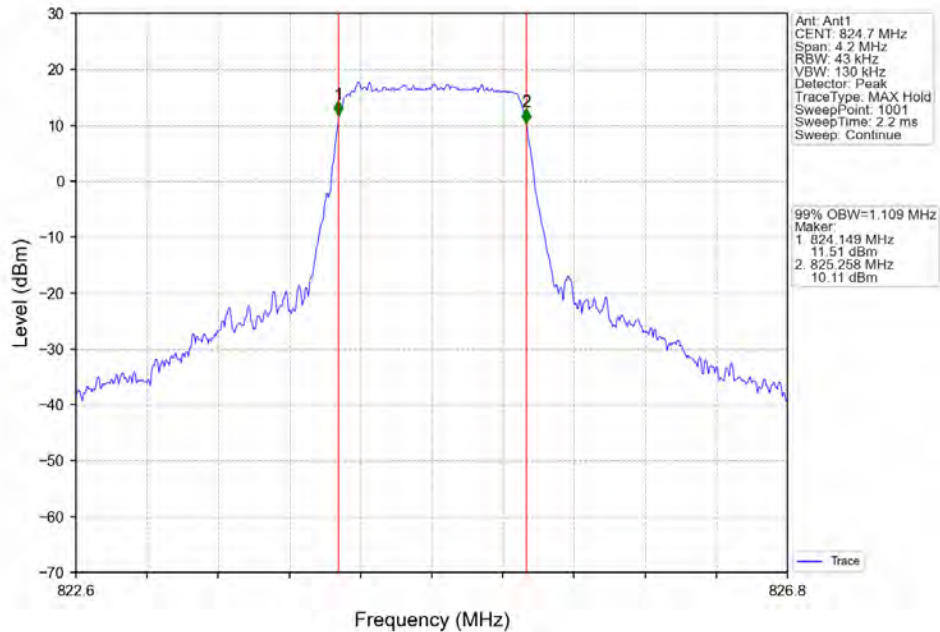
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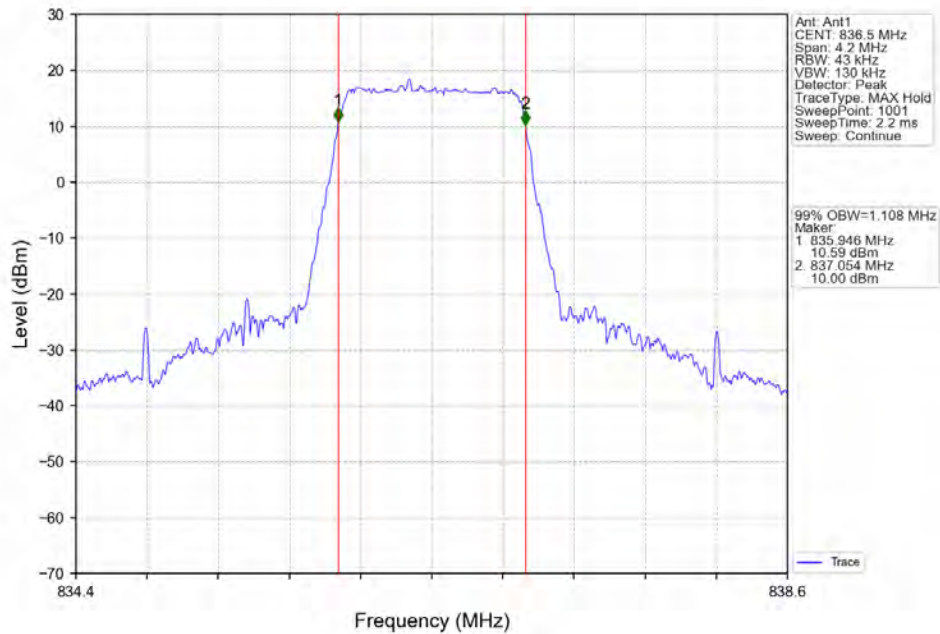
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Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



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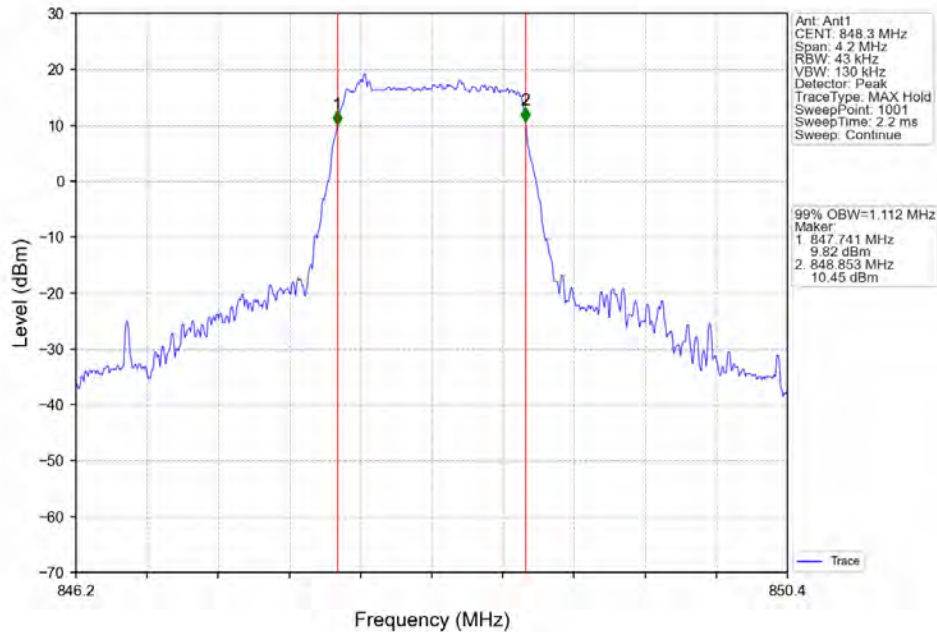
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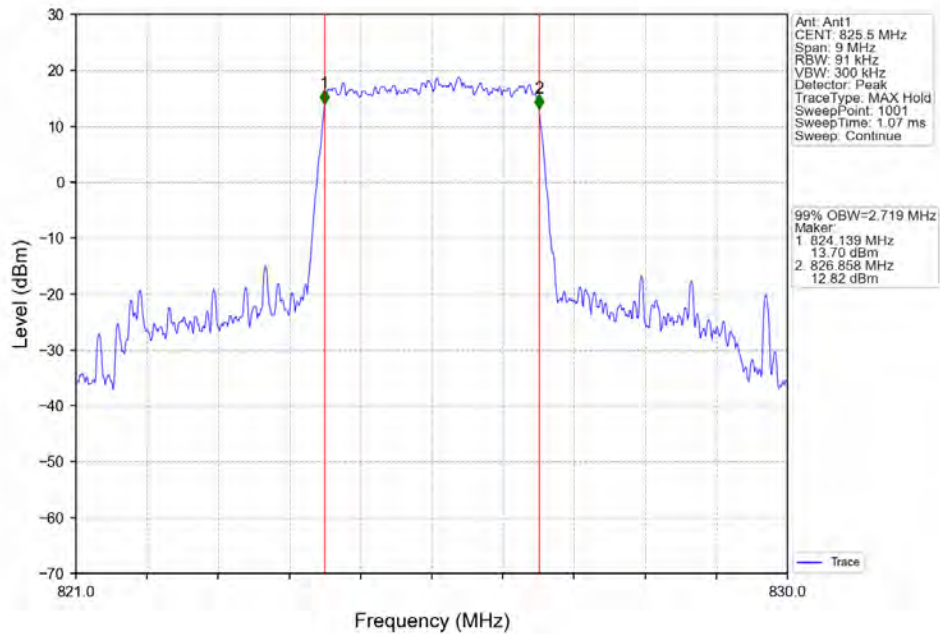
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Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



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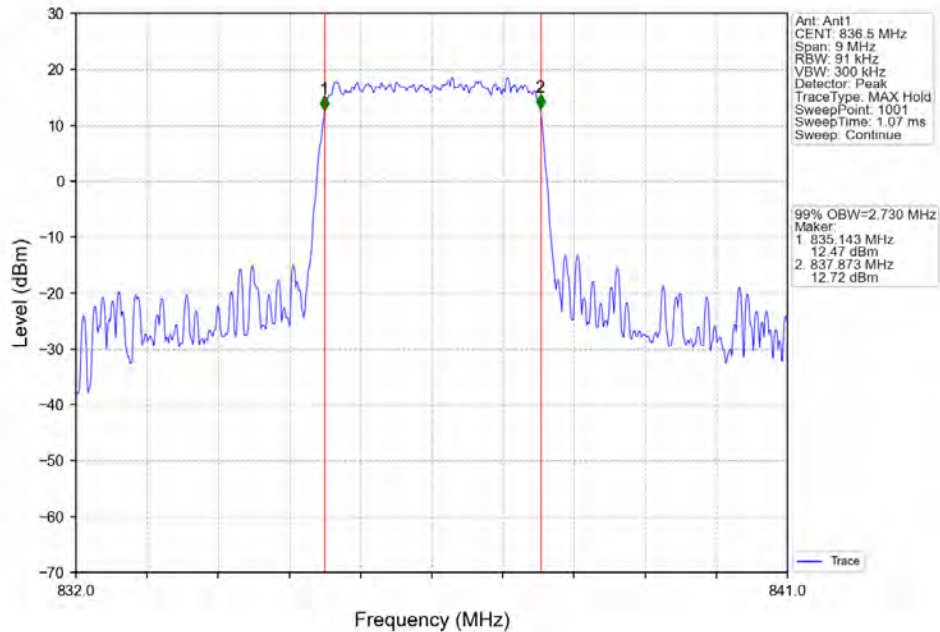
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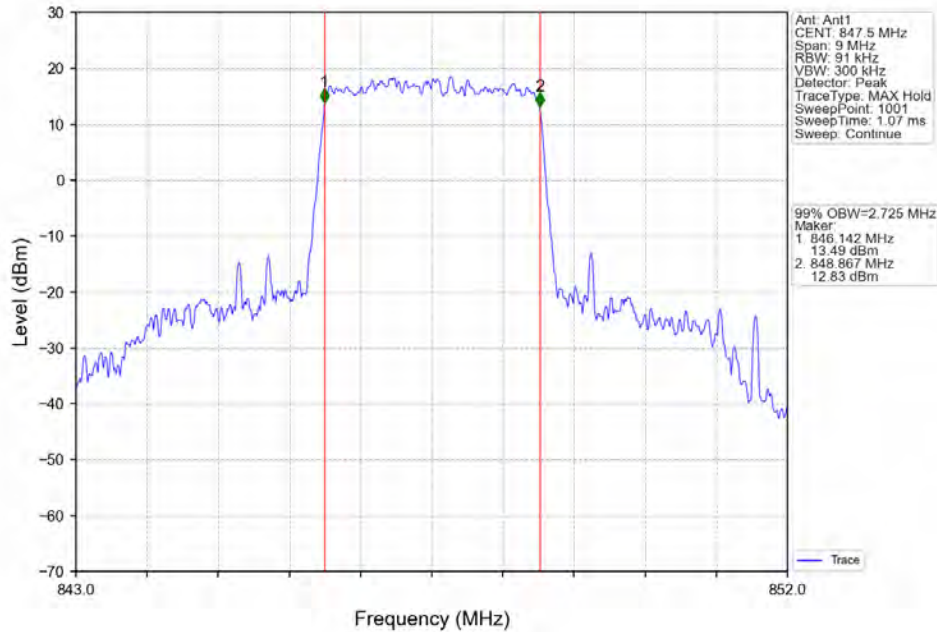
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Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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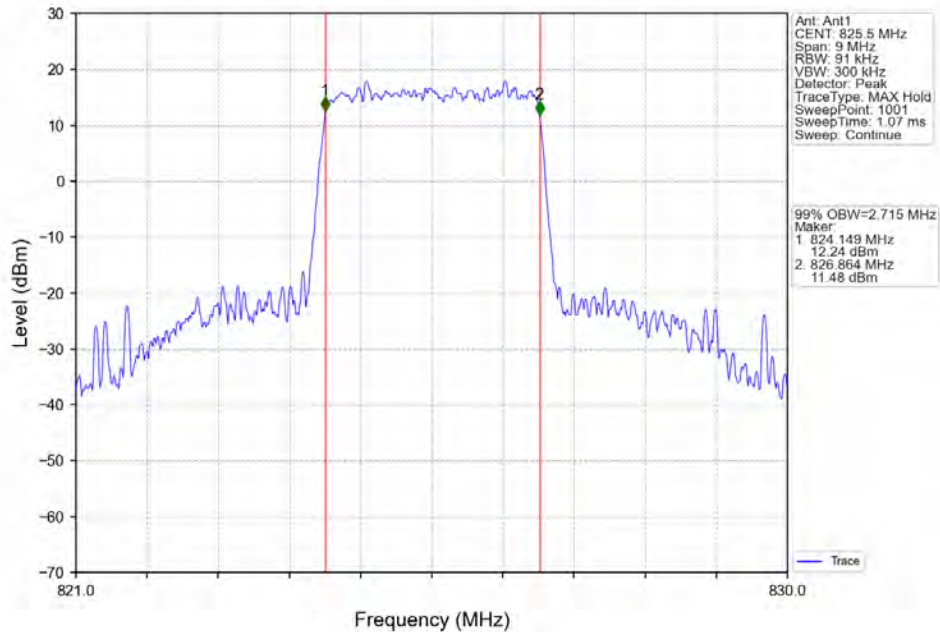
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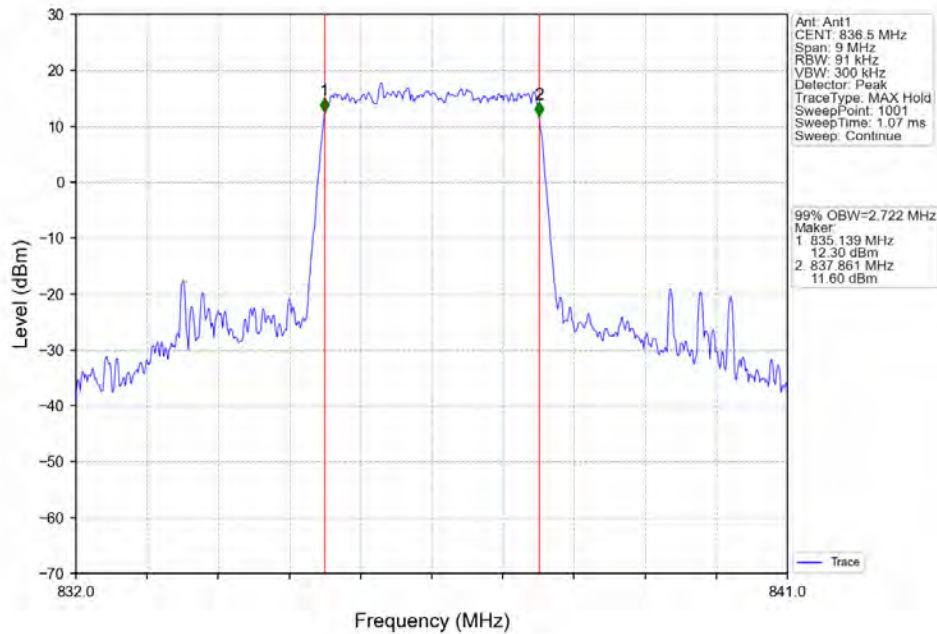
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Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



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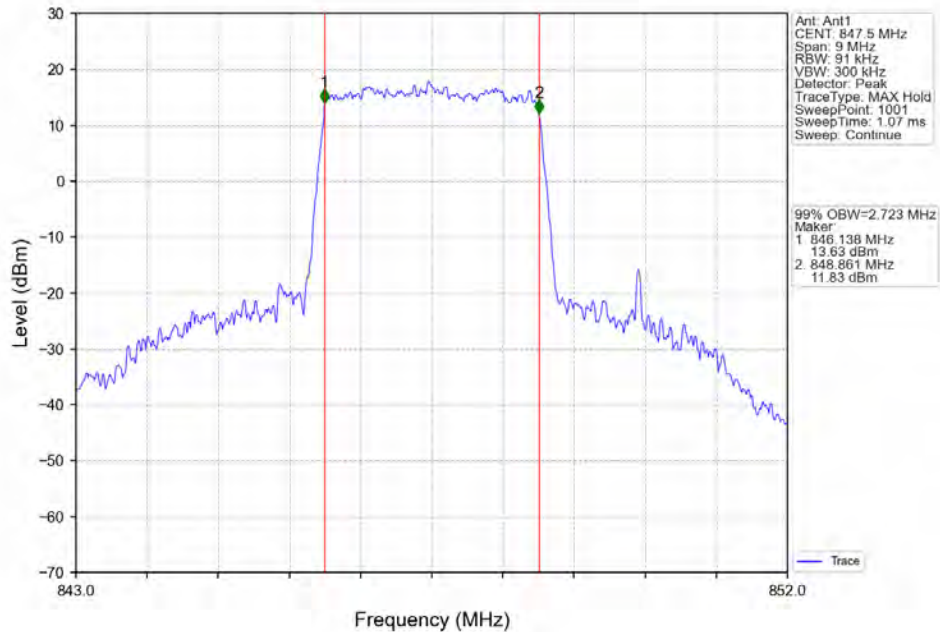
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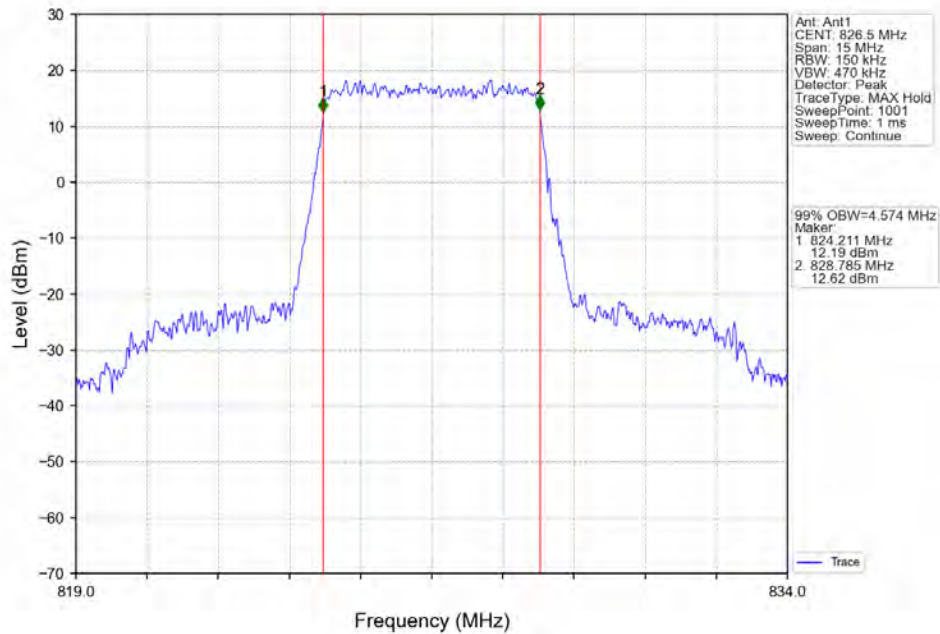
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Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



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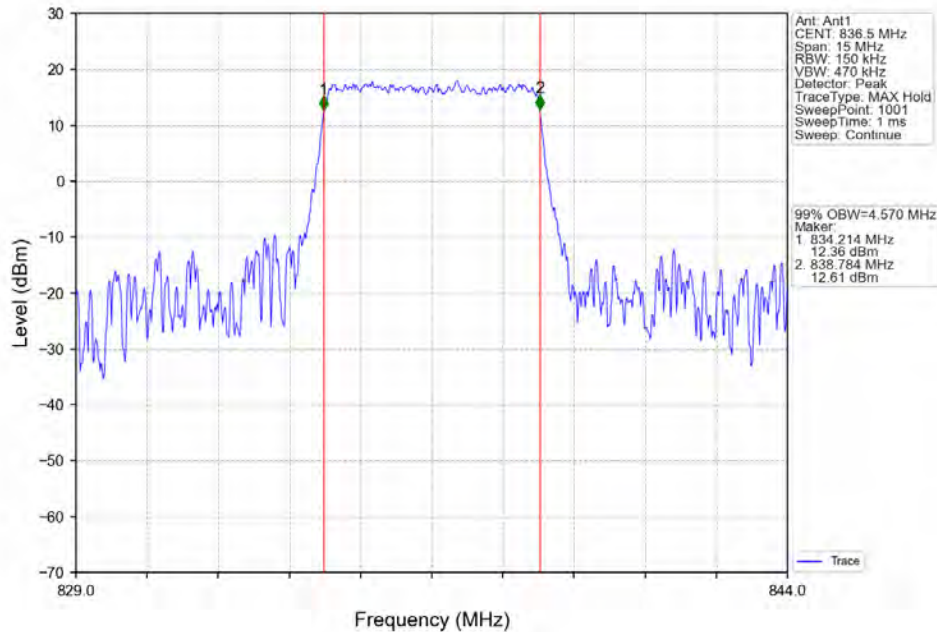
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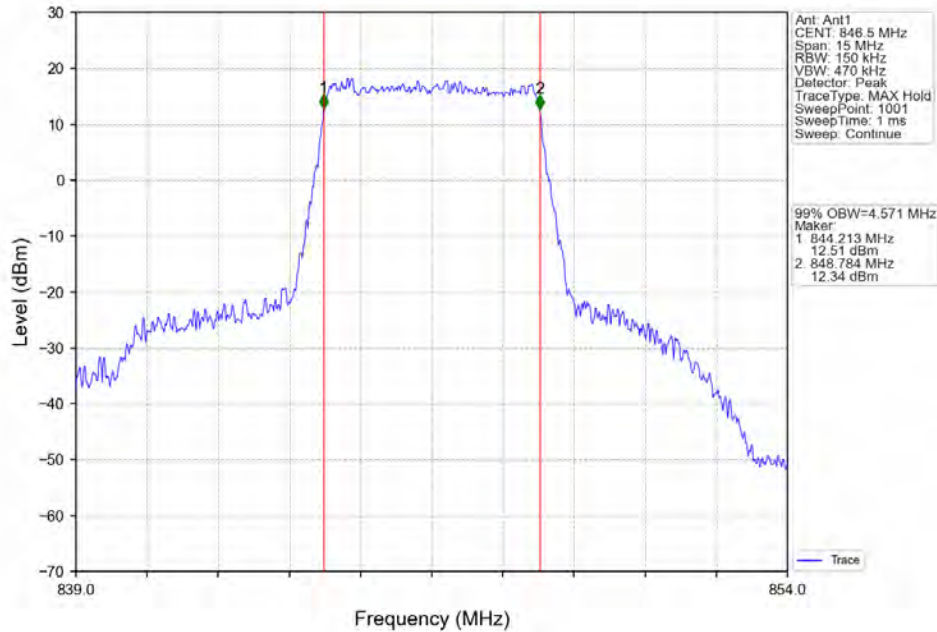
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Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



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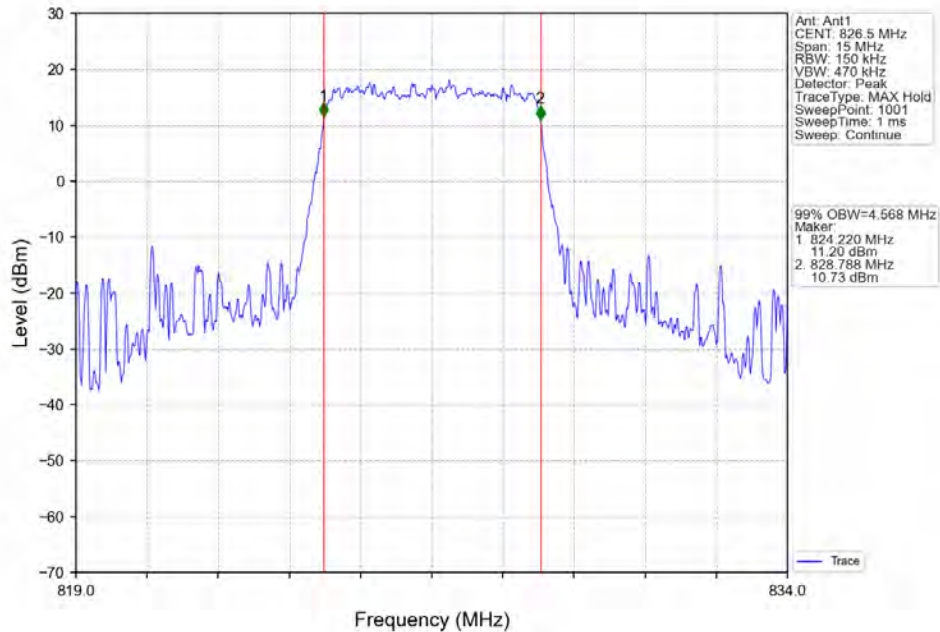
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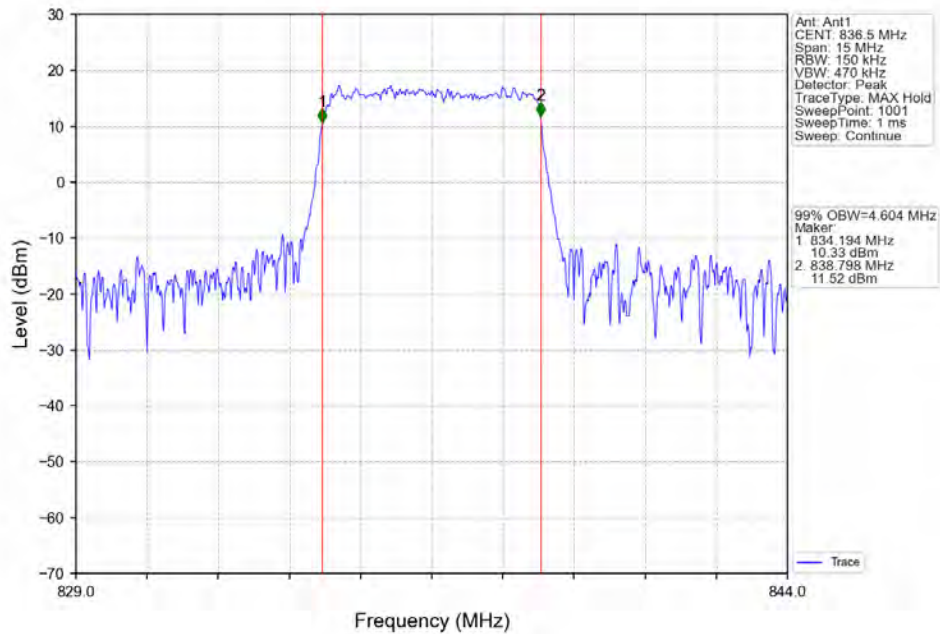
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Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



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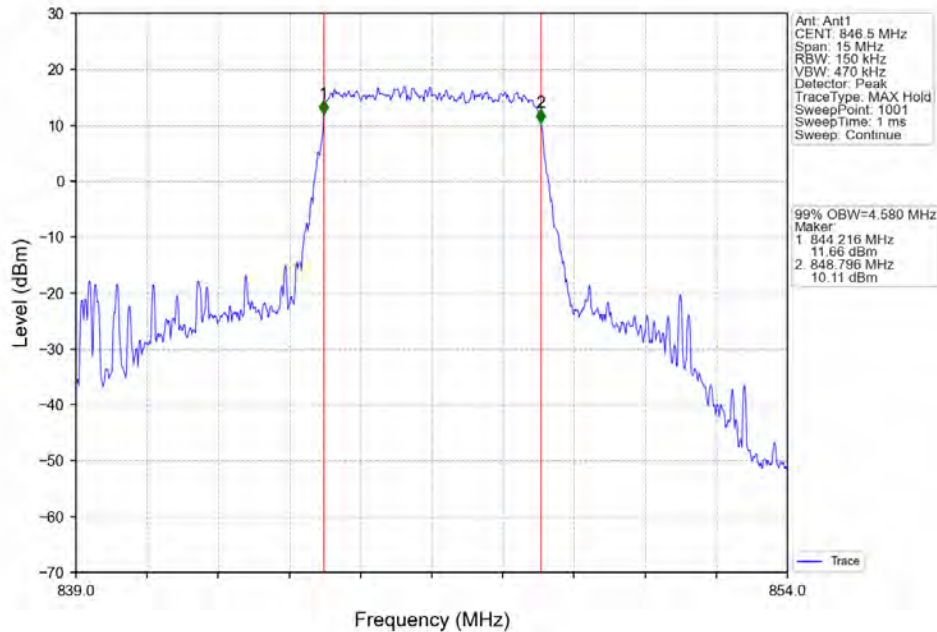
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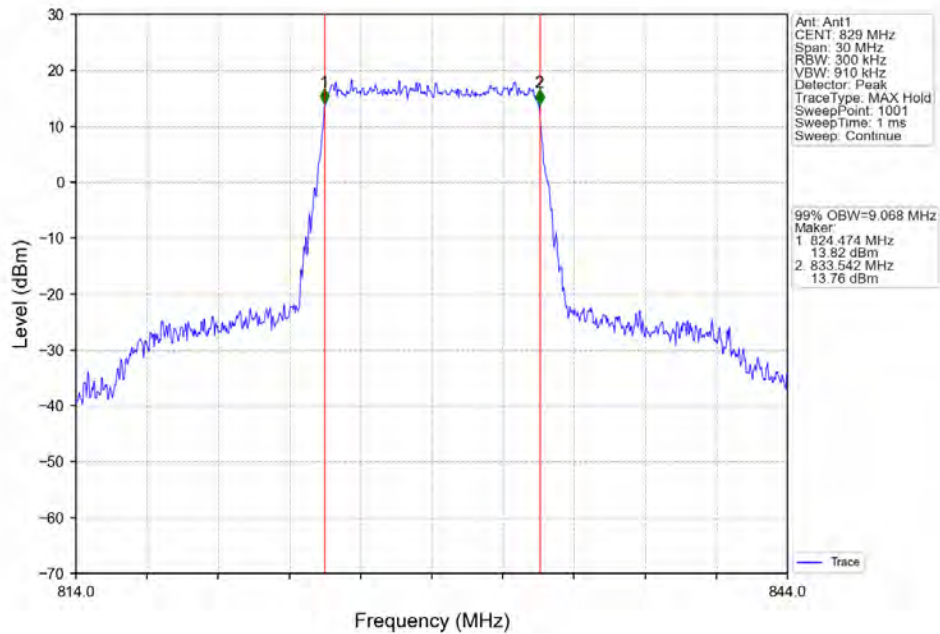
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Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



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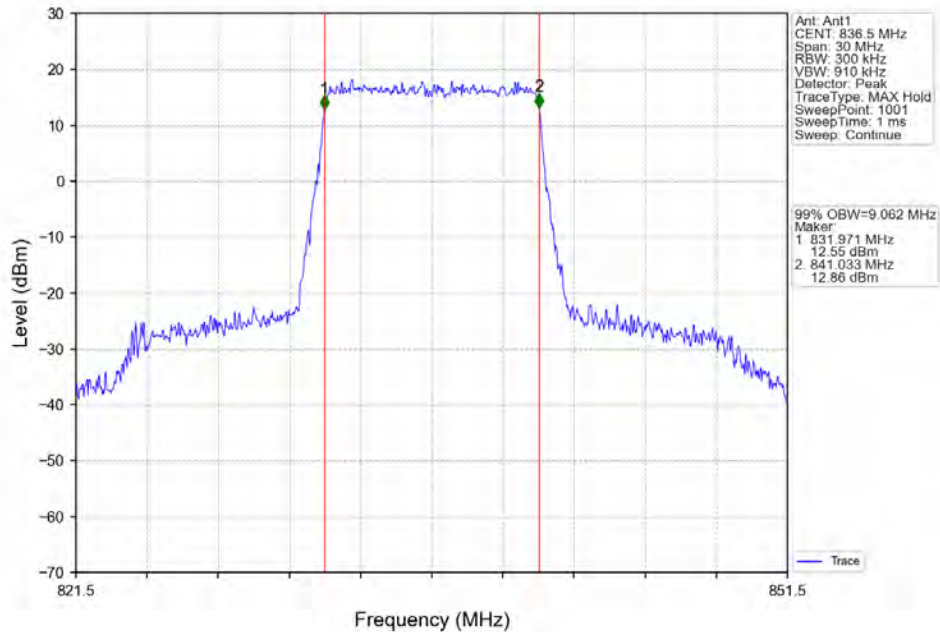
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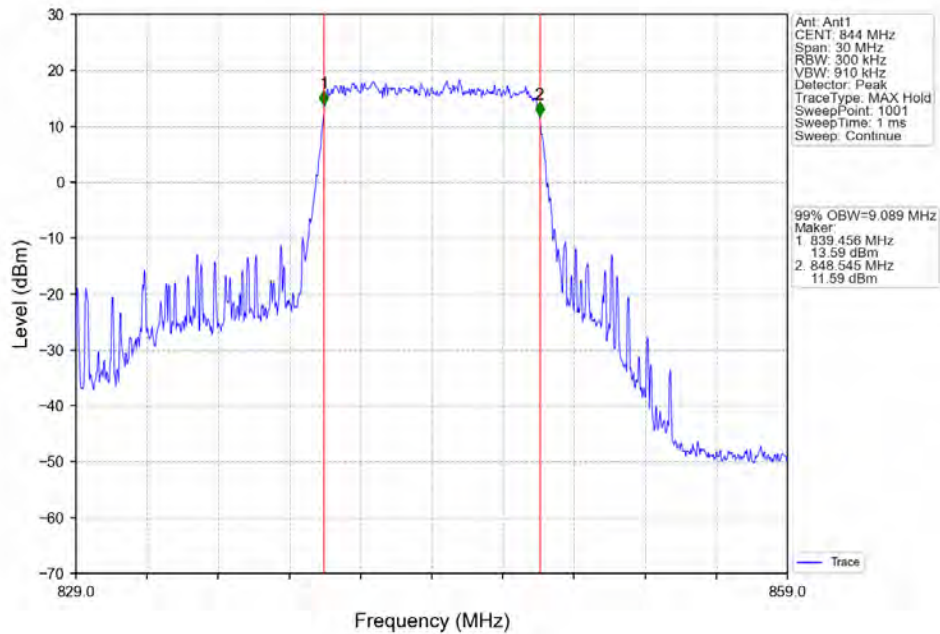
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Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



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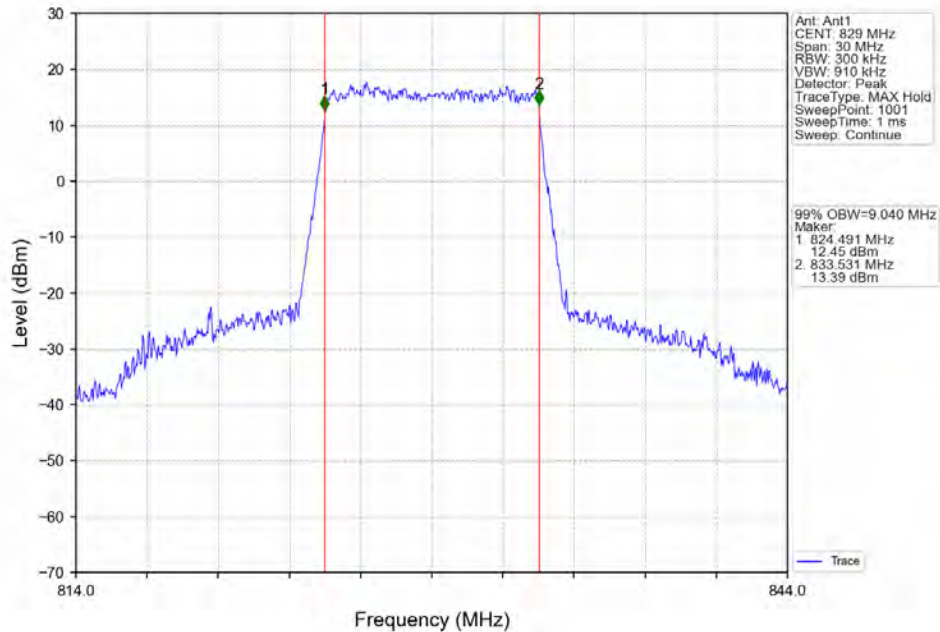
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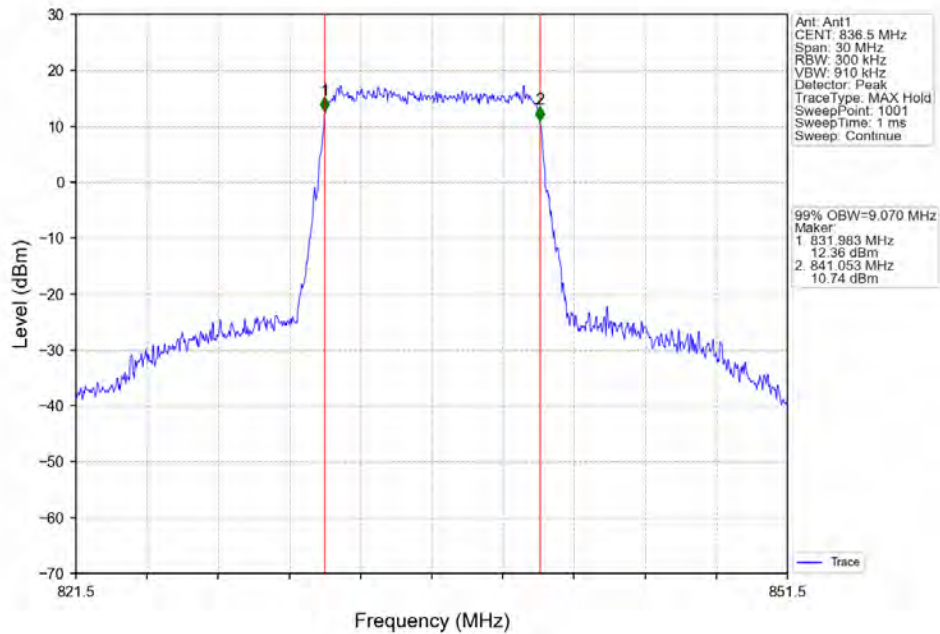
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Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



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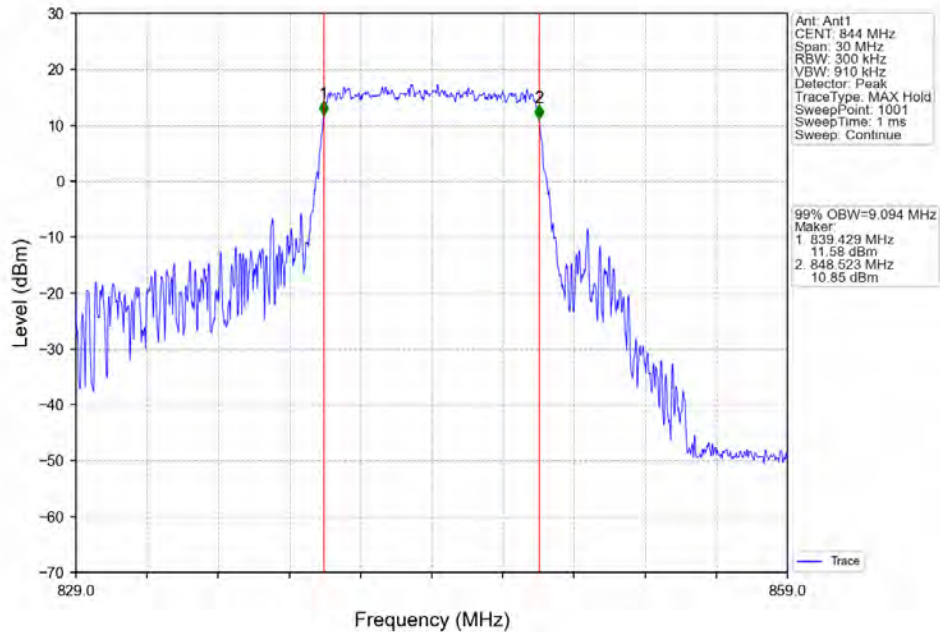
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## 3.2 Band5\_XDB

### 3.2.1 Test Result

| 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      | 1.318                | /     | Pass    |
|                 |            | 836.5           | 6             | 0      | 1.319                | /     | Pass    |
|                 |            | 848.3           | 6             | 0      | 1.326                | /     | Pass    |
|                 | 16QAM      | 824.7           | 6             | 0      | 1.312                | /     | Pass    |
|                 |            | 836.5           | 6             | 0      | 1.311                | /     | Pass    |
|                 |            | 848.3           | 6             | 0      | 1.305                | /     | Pass    |
| 3               | QPSK       | 825.5           | 15            | 0      | 2.986                | /     | Pass    |
|                 |            | 836.5           | 15            | 0      | 2.996                | /     | Pass    |
|                 |            | 847.5           | 15            | 0      | 2.996                | /     | Pass    |
|                 | 16QAM      | 825.5           | 15            | 0      | 2.966                | /     | Pass    |
|                 |            | 836.5           | 15            | 0      | 2.977                | /     | Pass    |
|                 |            | 847.5           | 15            | 0      | 3.006                | /     | Pass    |
| 5               | QPSK       | 826.5           | 25            | 0      | 5.297                | /     | Pass    |
|                 |            | 836.5           | 25            | 0      | 5.276                | /     | Pass    |
|                 |            | 846.5           | 25            | 0      | 5.288                | /     | Pass    |
|                 | 16QAM      | 826.5           | 25            | 0      | 5.277                | /     | Pass    |
|                 |            | 836.5           | 25            | 0      | 5.309                | /     | Pass    |
|                 |            | 846.5           | 25            | 0      | 5.319                | /     | Pass    |
| 10              | QPSK       | 829             | 50            | 0      | 10.287               | /     | Pass    |
|                 |            | 836.5           | 50            | 0      | 10.186               | /     | Pass    |
|                 |            | 844             | 50            | 0      | 10.254               | /     | Pass    |
|                 | 16QAM      | 829             | 50            | 0      | 10.209               | /     | Pass    |
|                 |            | 836.5           | 50            | 0      | 10.252               | /     | Pass    |
|                 |            | 844             | 50            | 0      | 13.370               | /     | Pass    |



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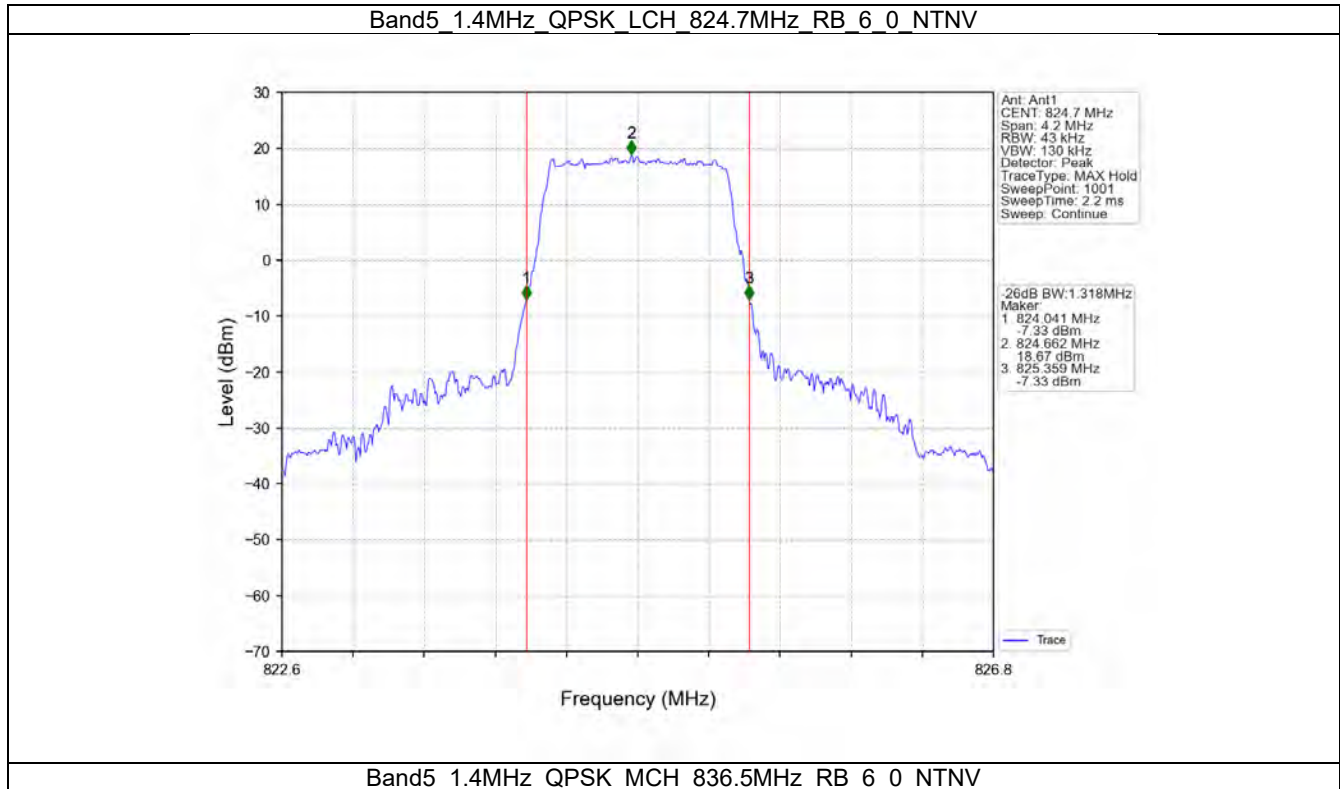
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### 3.2.2 Test Graph



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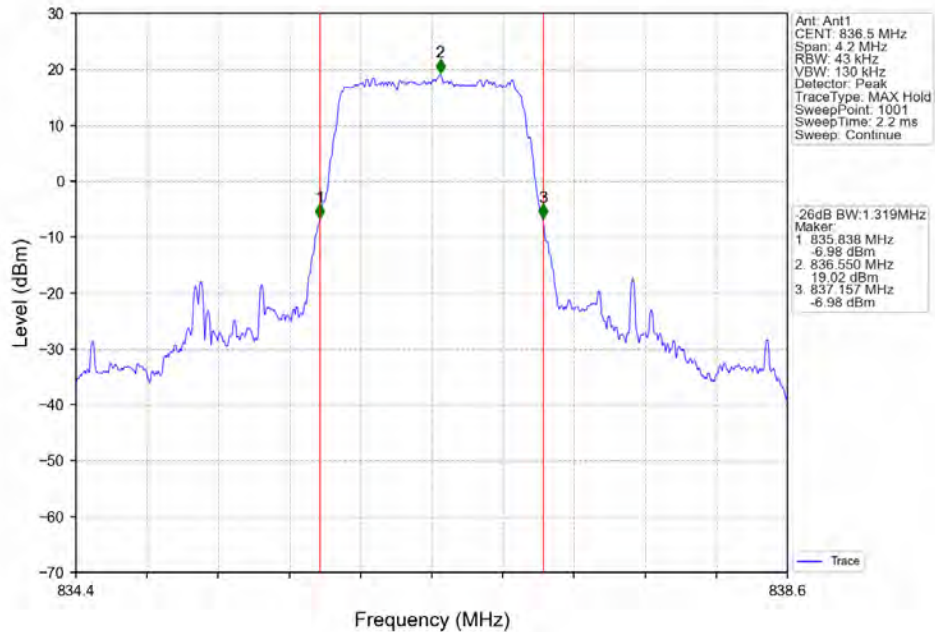
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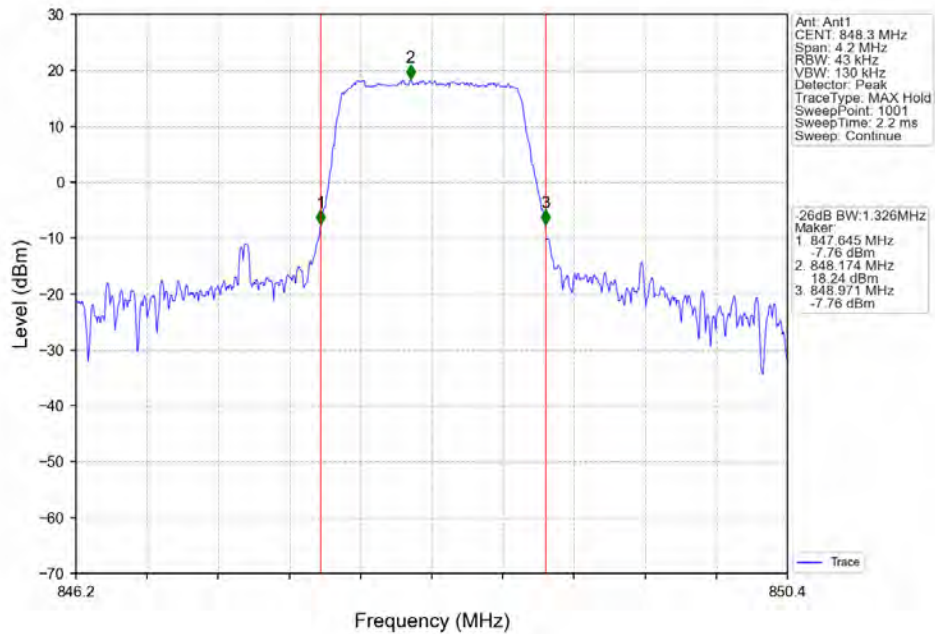


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Band5 1.4MHz QPSK HCH 848.3MHz RB 6 0 NTNV



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



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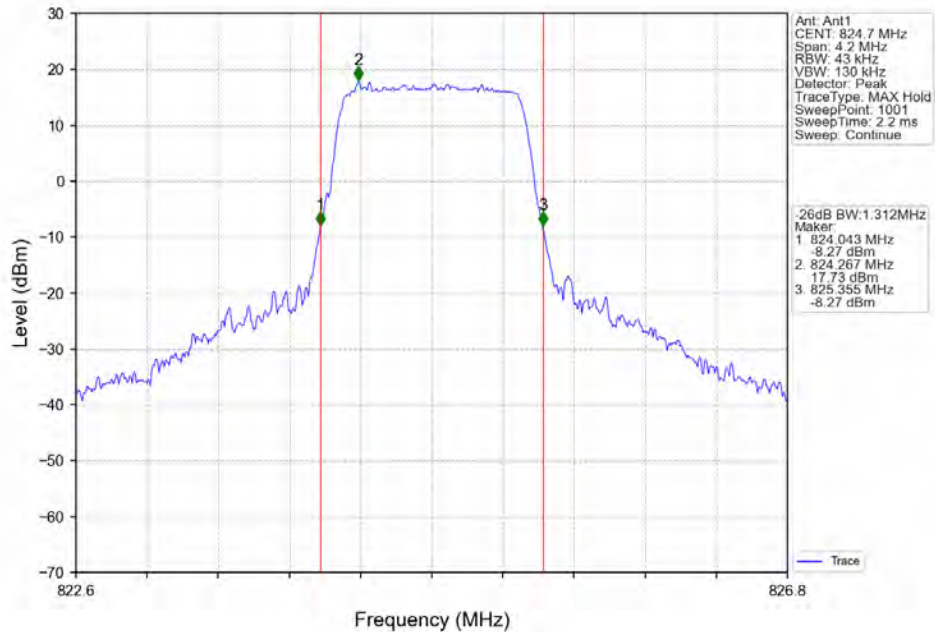
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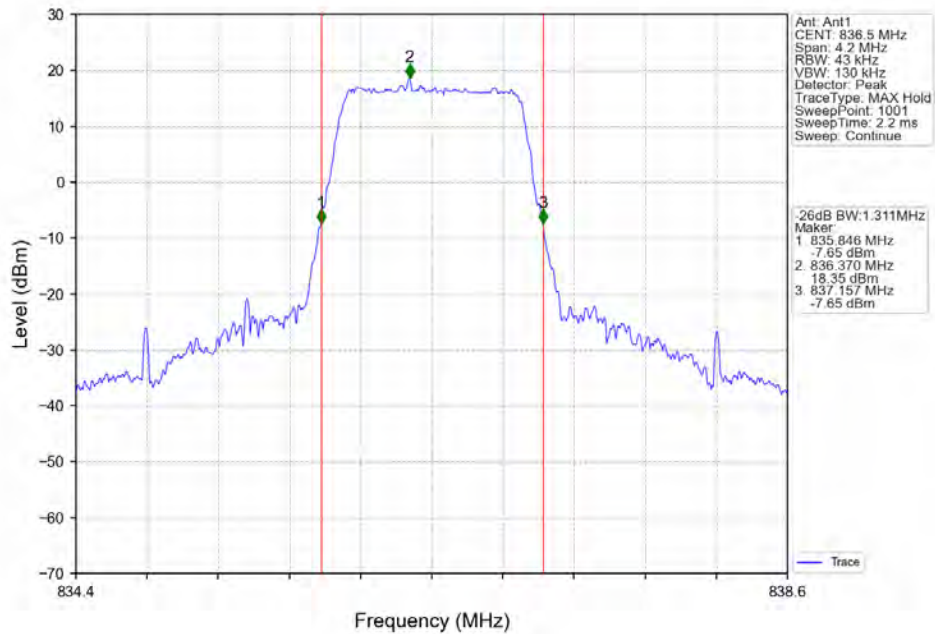
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Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



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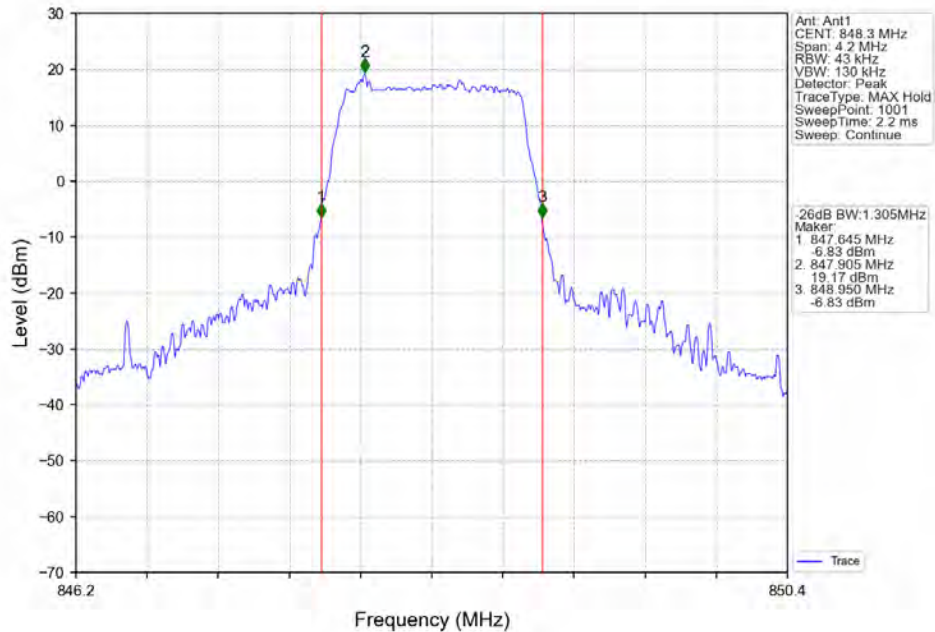
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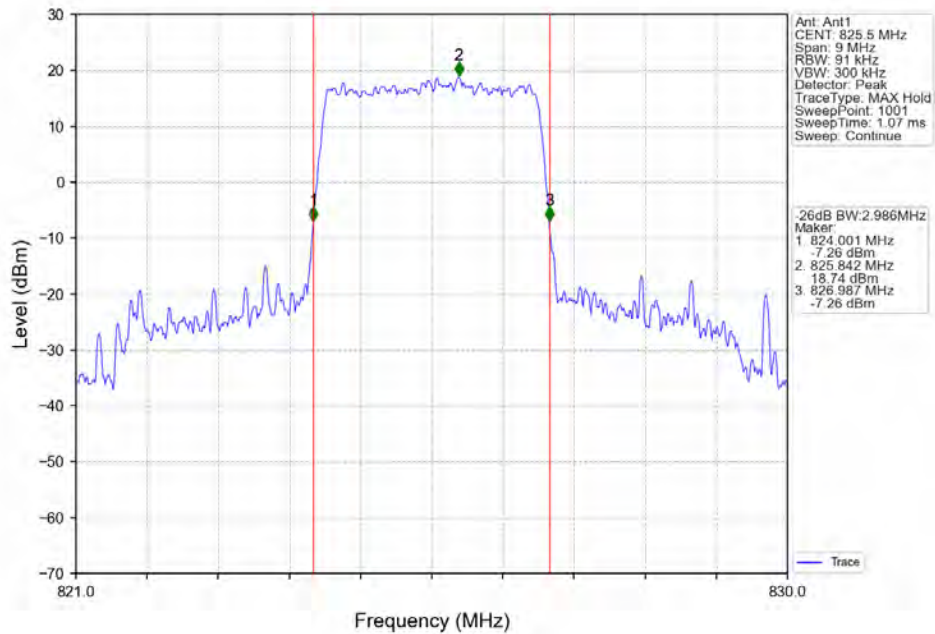


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Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



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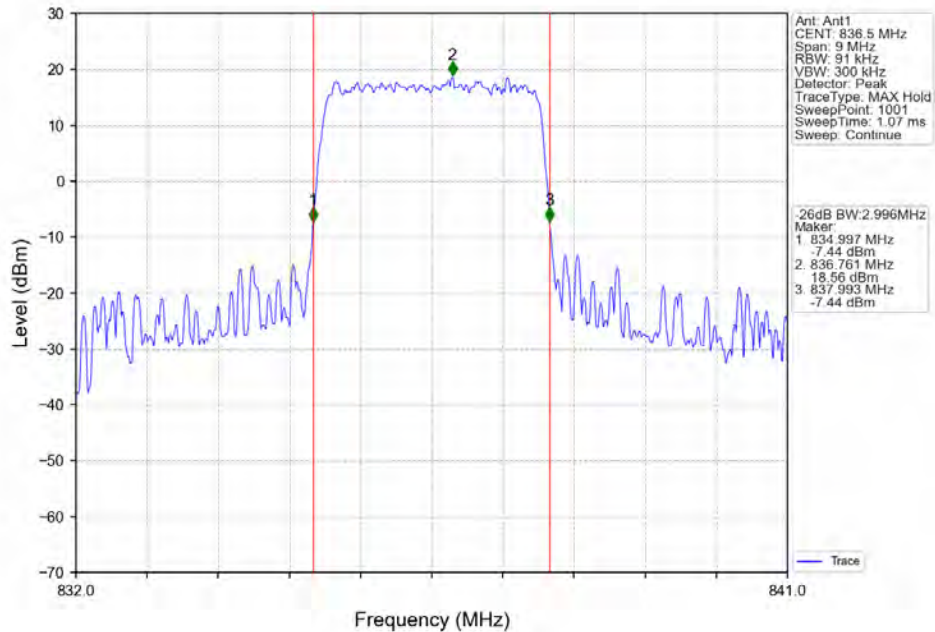
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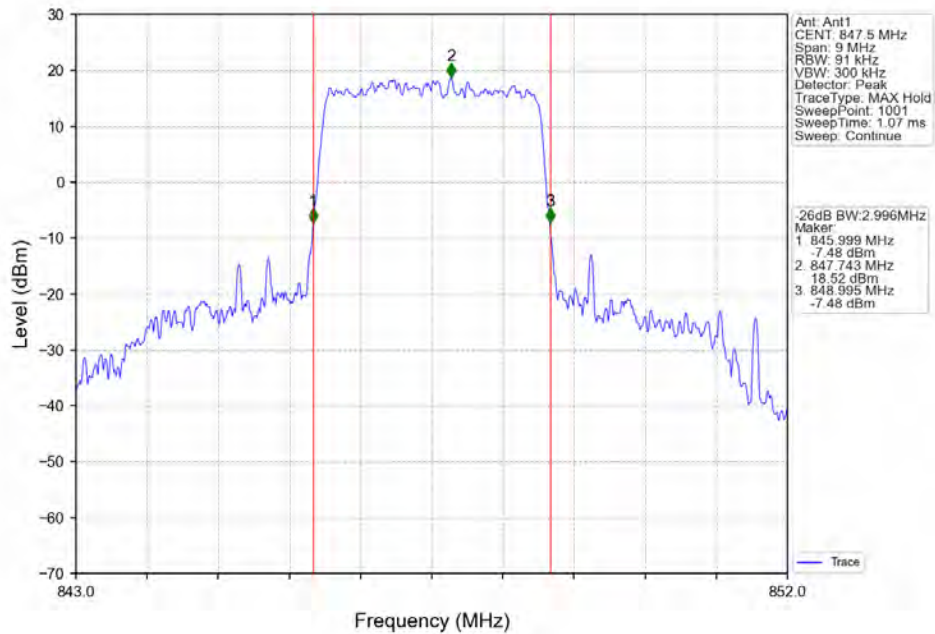
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Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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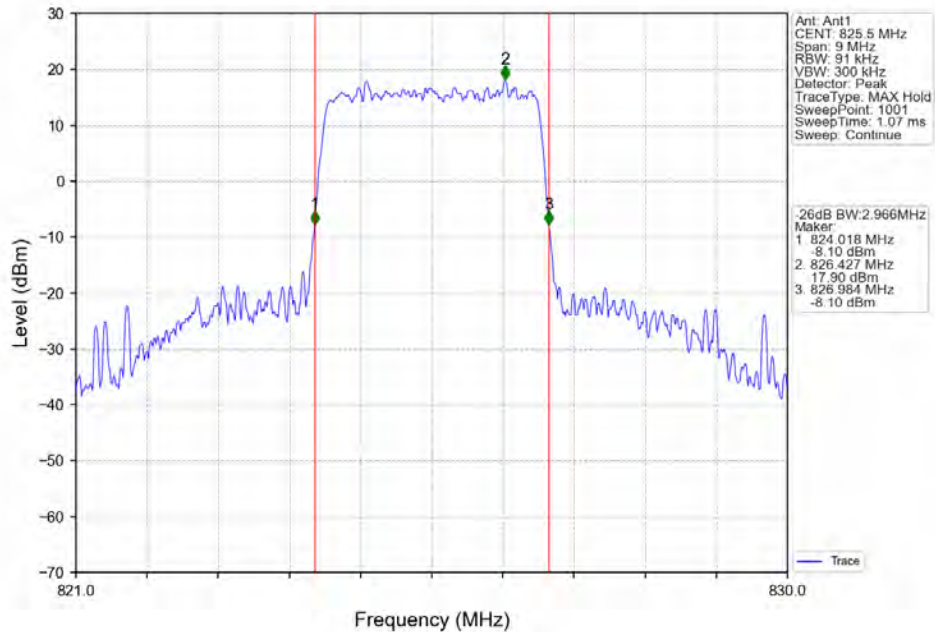
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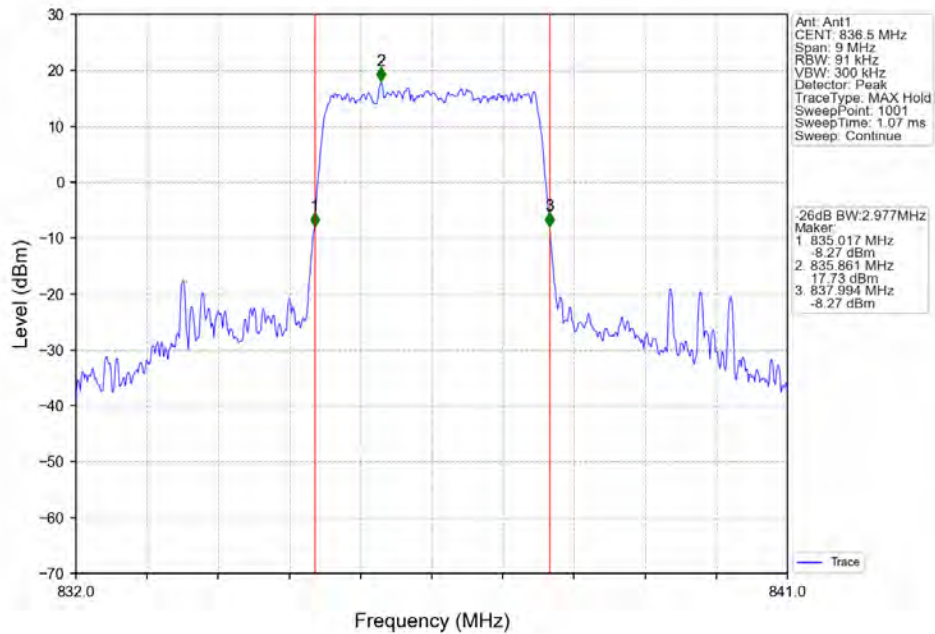


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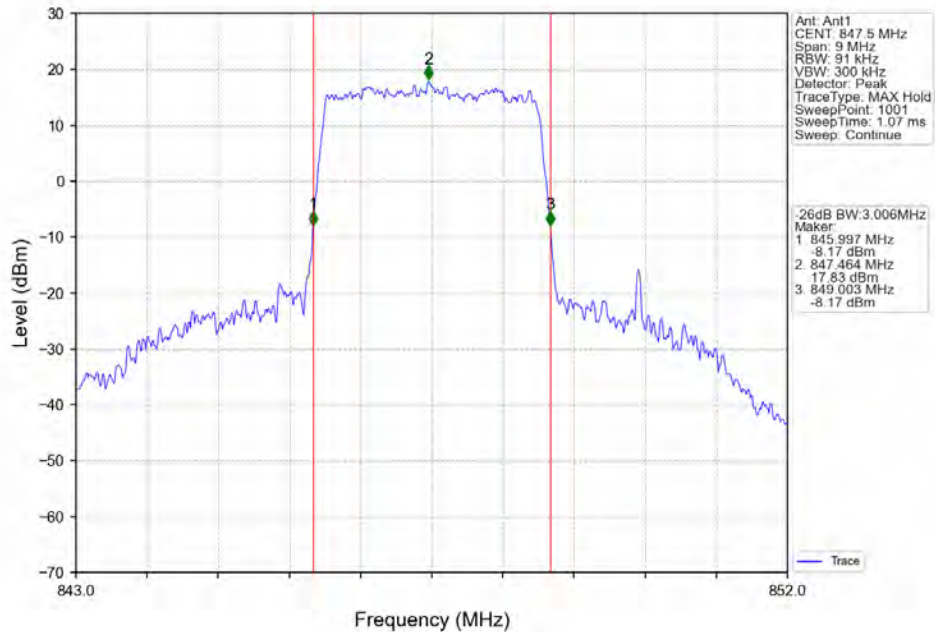
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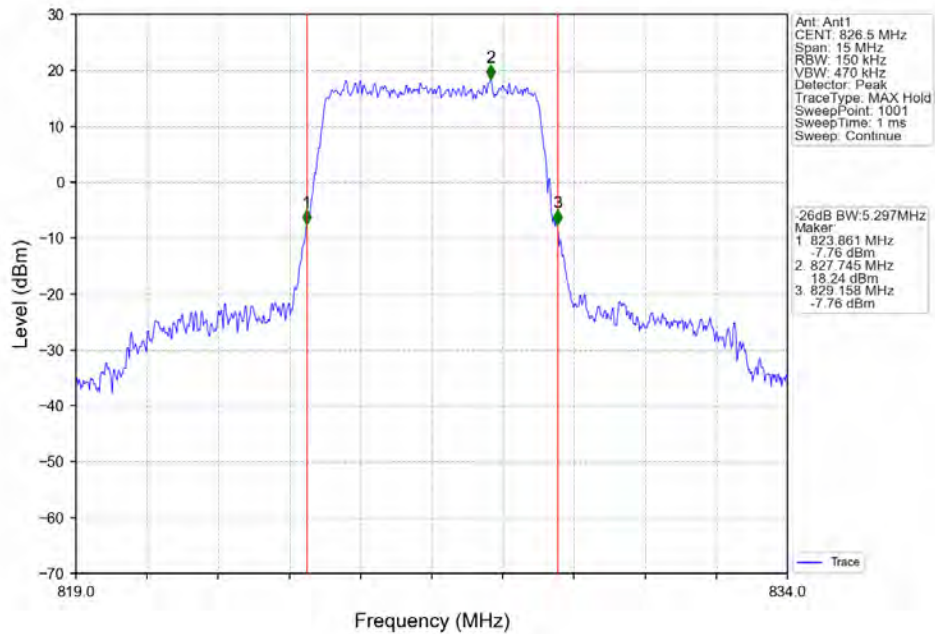
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Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



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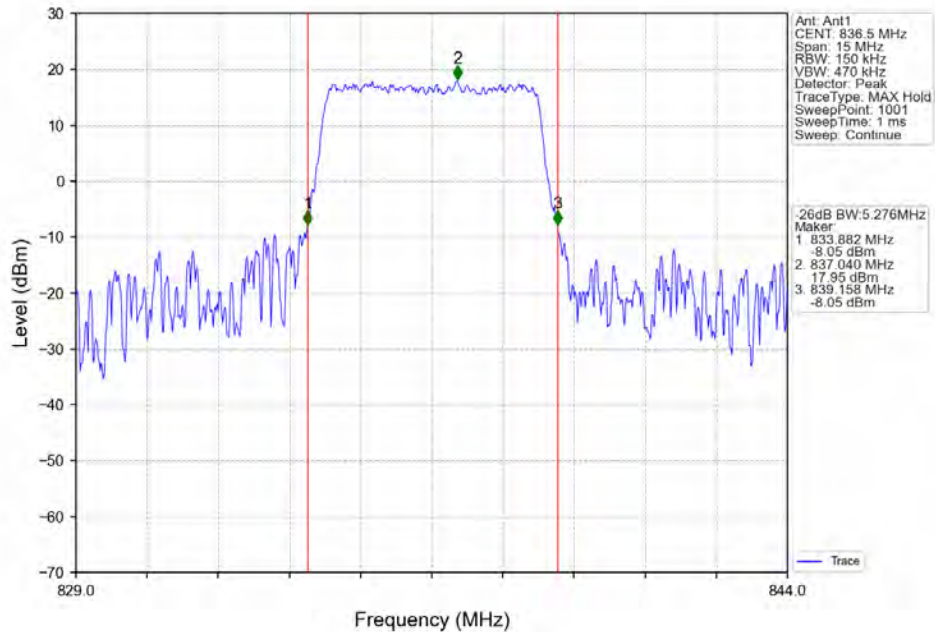
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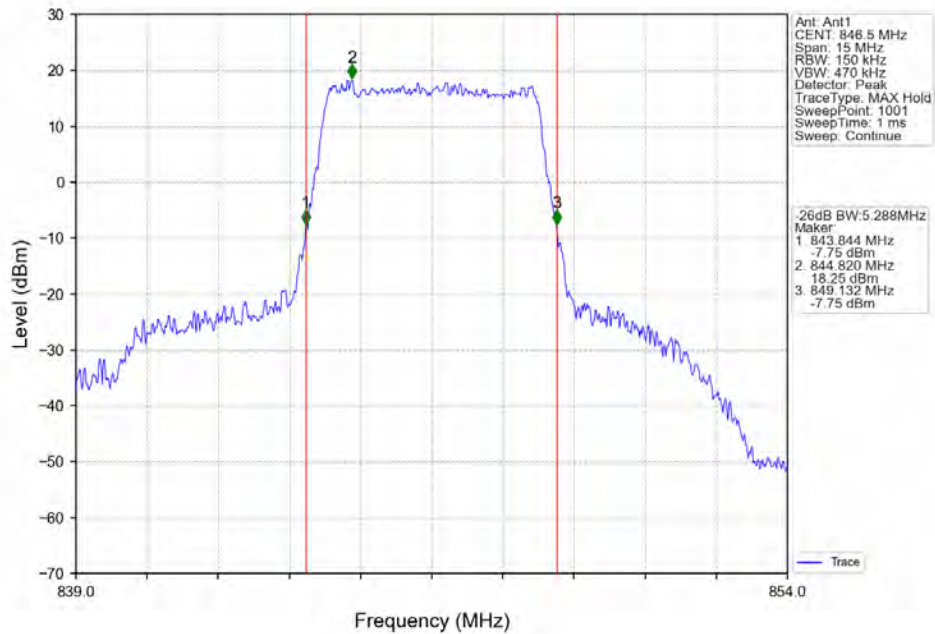


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Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



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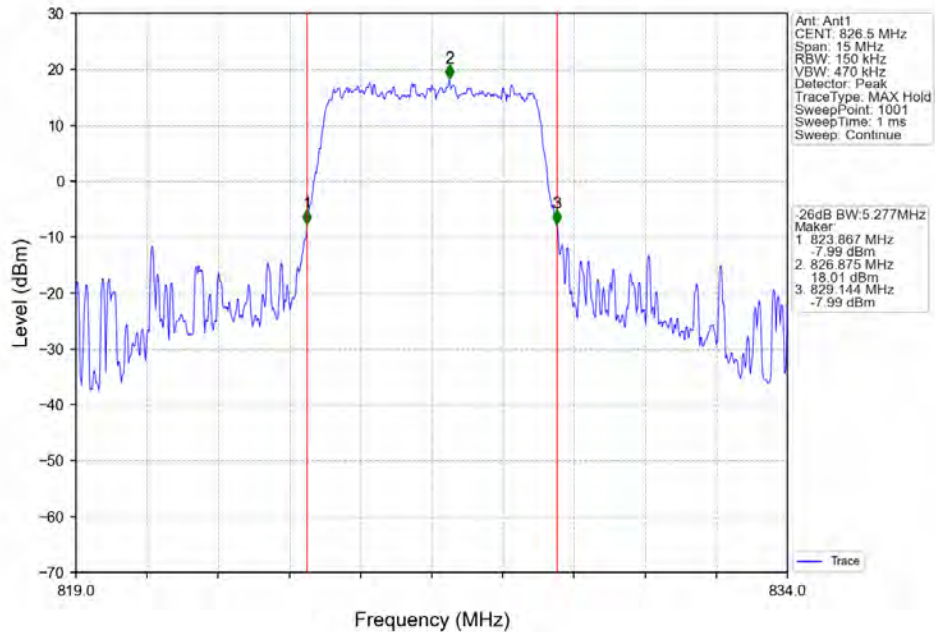
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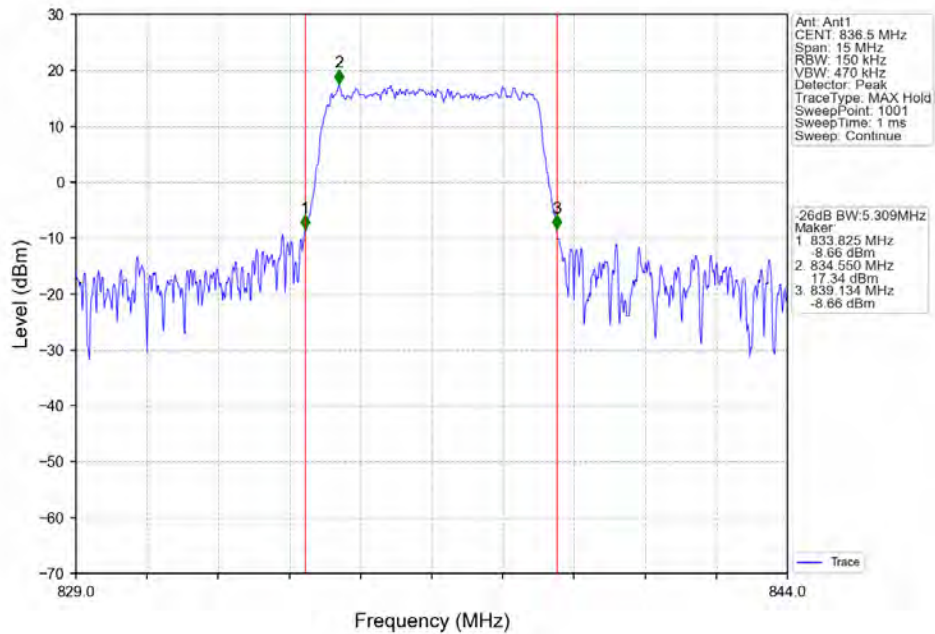
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Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



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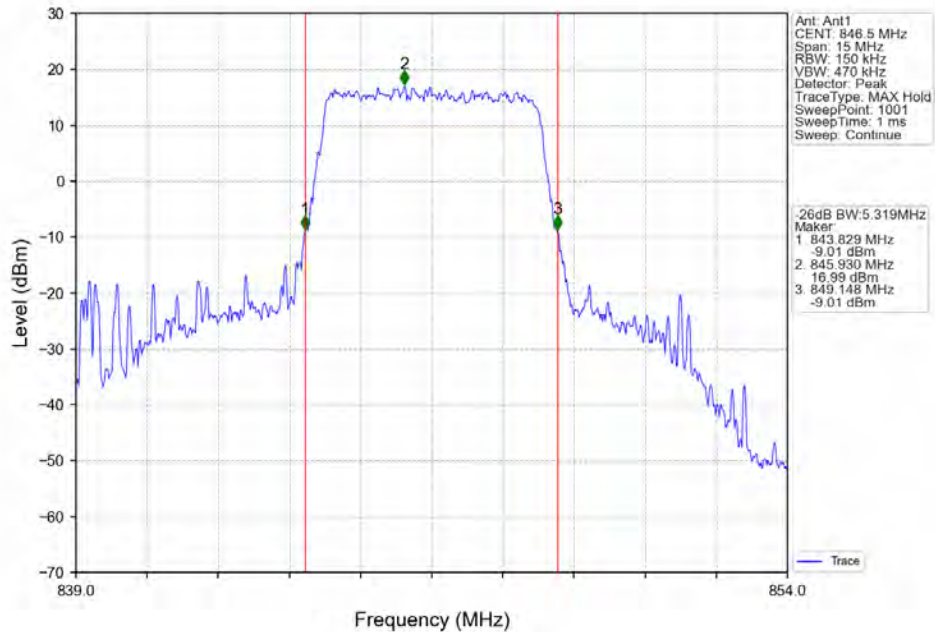
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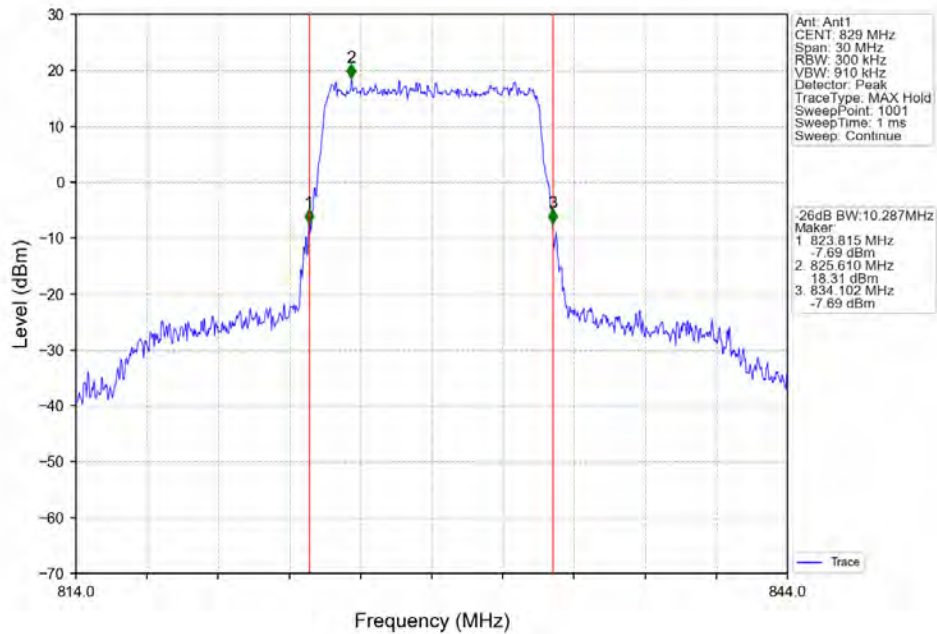


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Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



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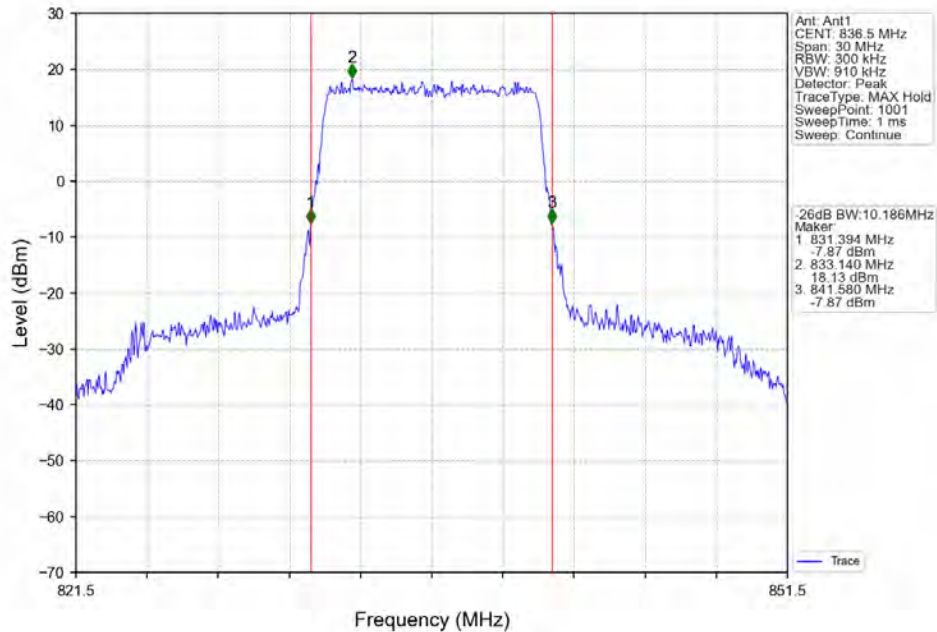
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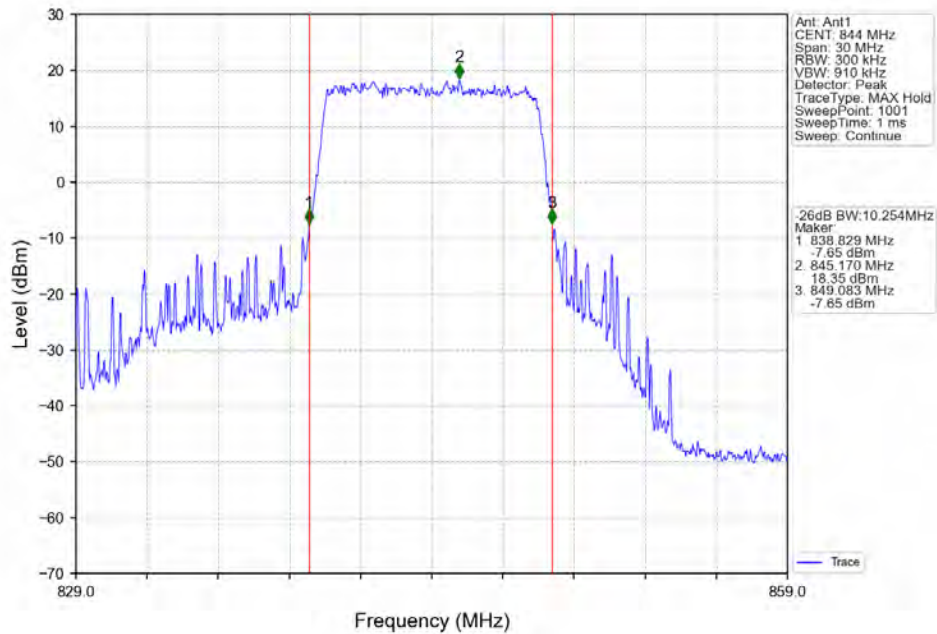
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Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



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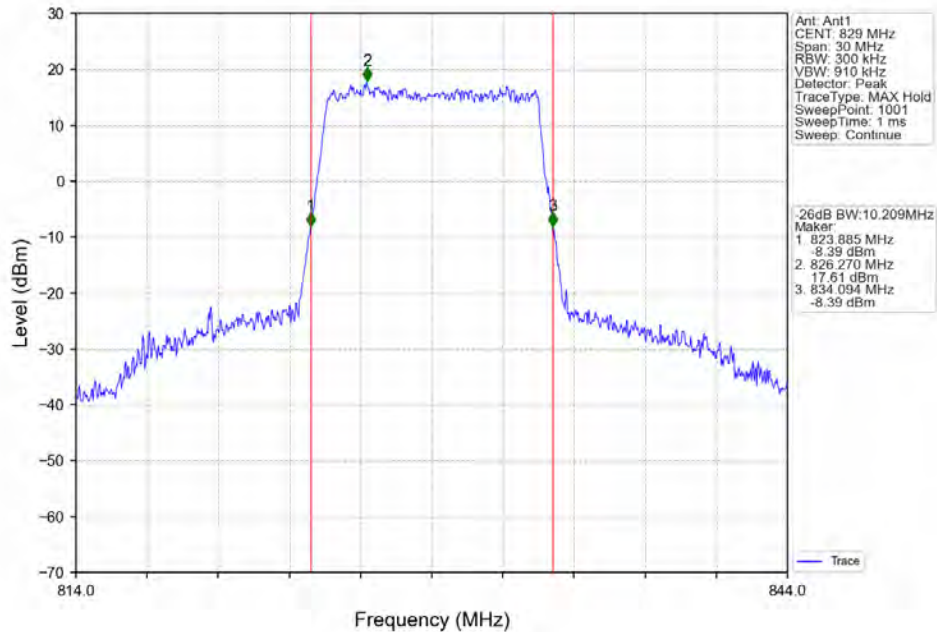
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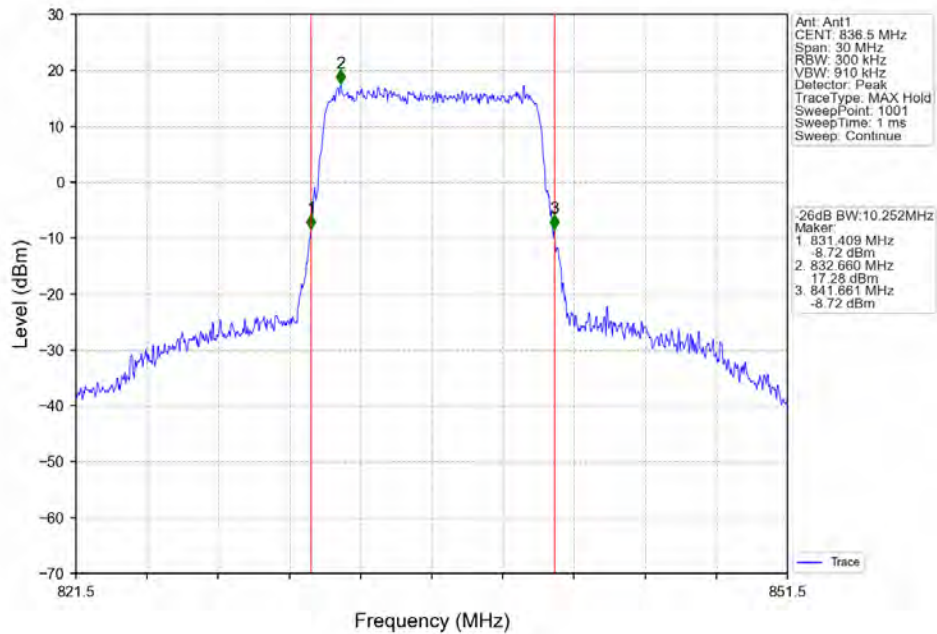


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Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



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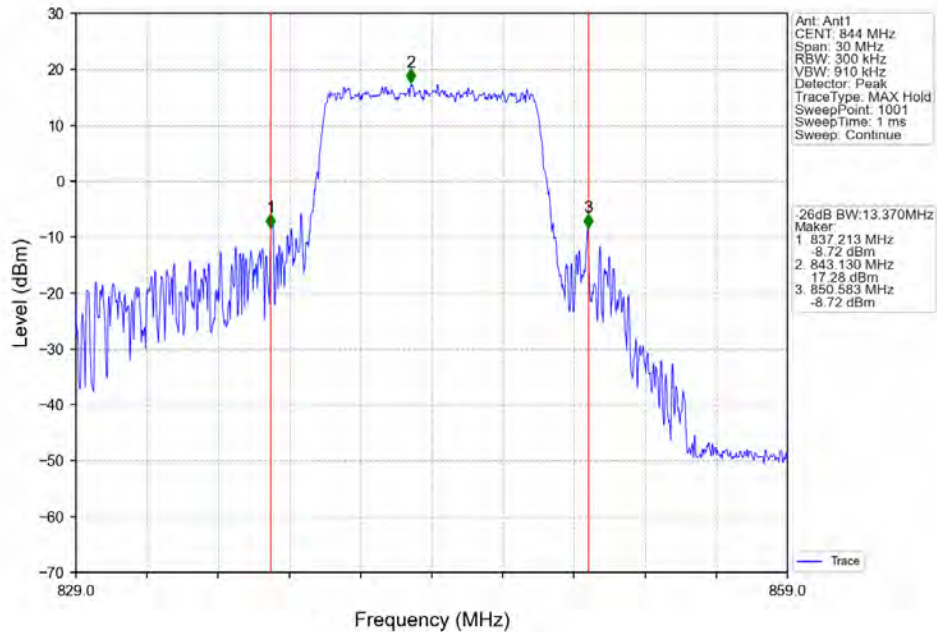
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## 4. Peak-Average Ratio

### 4.1 B5\_1.4MHz

#### 4.1.1 Test Result

| Band: 5 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 824.7           | 6             | 0      | 5.13                    | <=13  | Pass    |
|                                    | 836.5           | 6             | 0      | 5.39                    | <=13  | Pass    |
|                                    | 848.3           | 6             | 0      | 5.01                    | <=13  | Pass    |
| 16QAM                              | 824.7           | 6             | 0      | 5.97                    | <=13  | Pass    |
|                                    | 836.5           | 6             | 0      | 6.14                    | <=13  | Pass    |
|                                    | 848.3           | 6             | 0      | 5.76                    | <=13  | Pass    |



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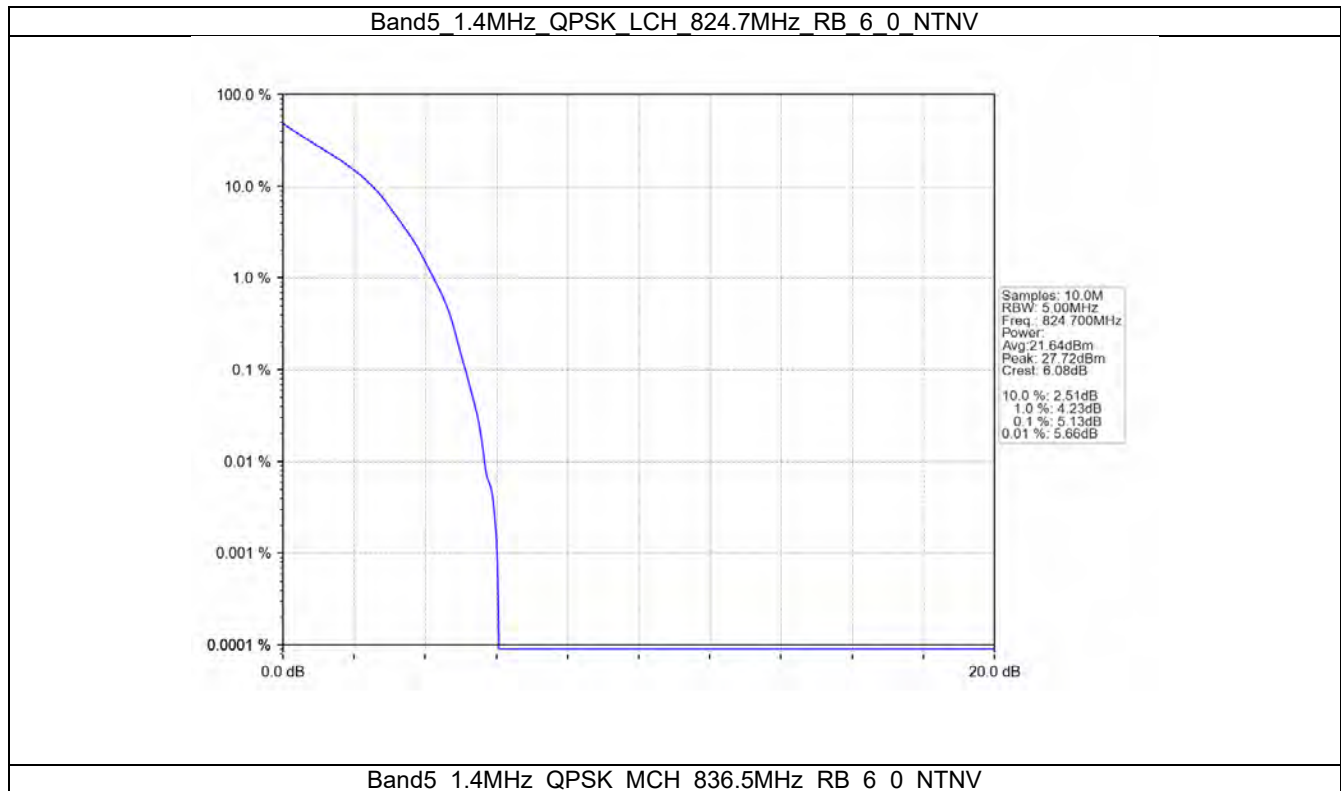
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### 4.1.2 Test Graph



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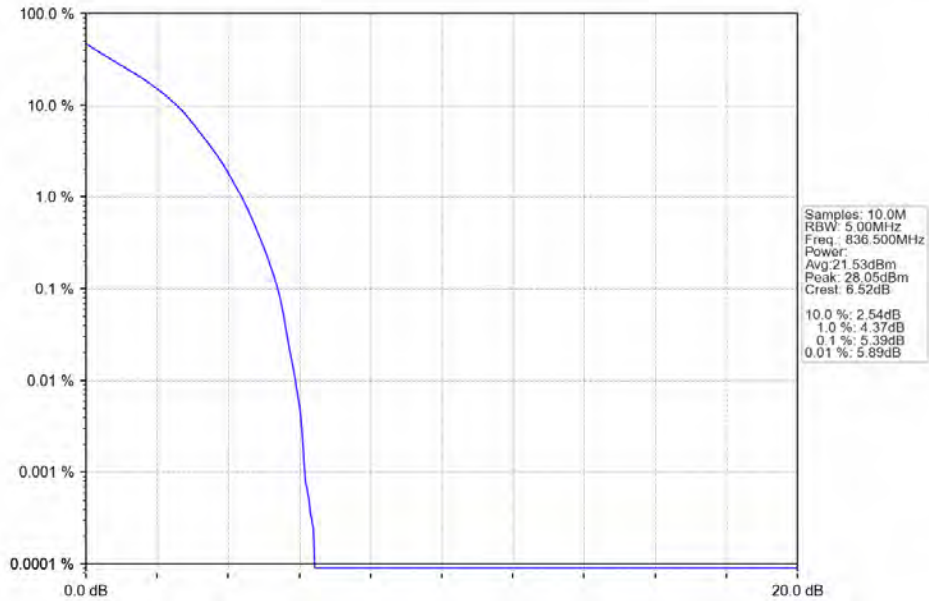
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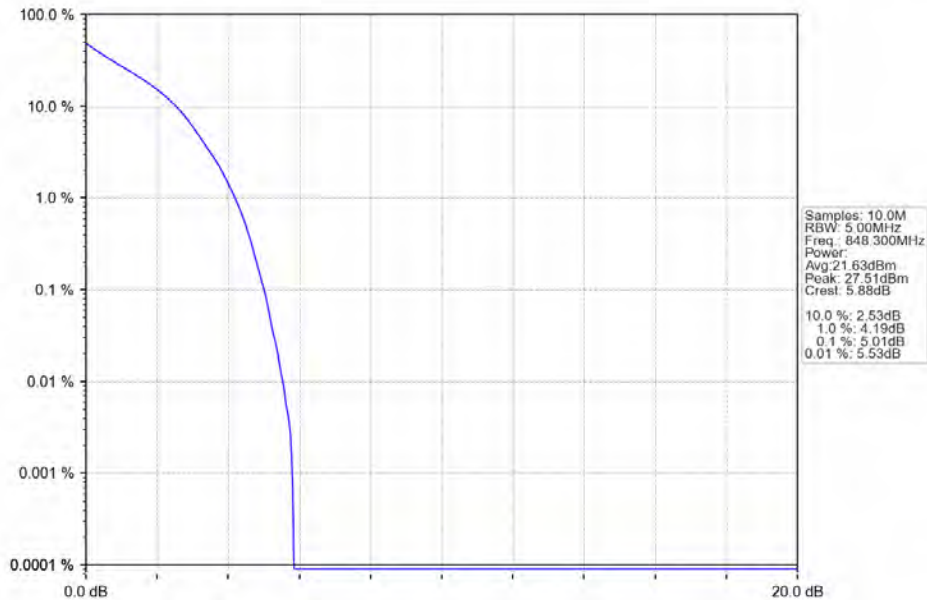
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Band5 1.4MHz QPSK HCH 848.3MHz RB 6 0 NTNV



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



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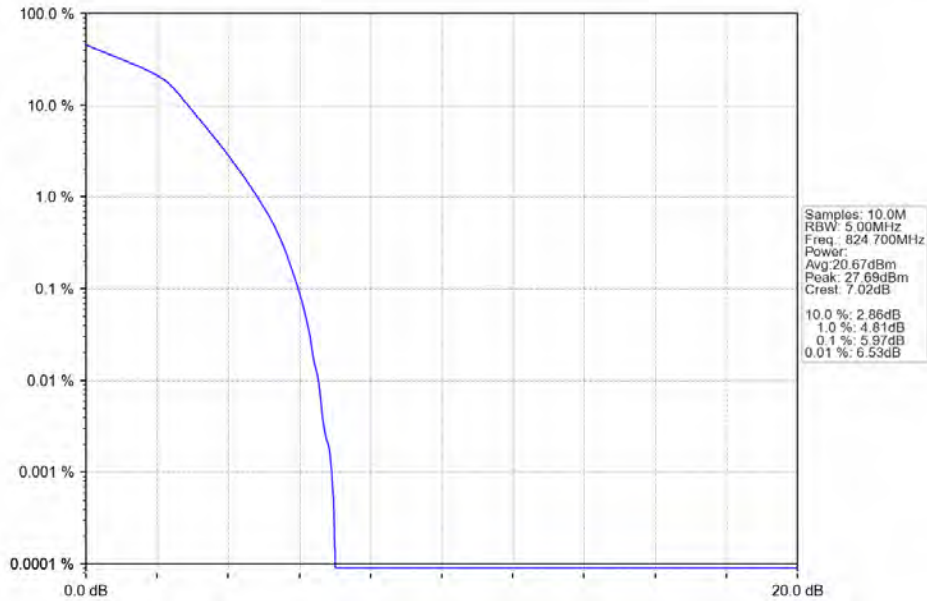
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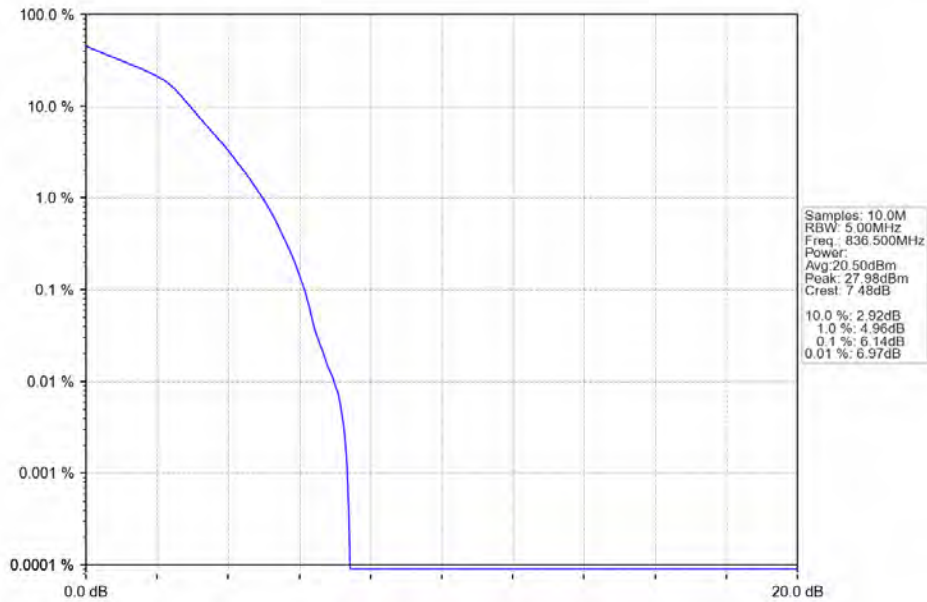
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Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



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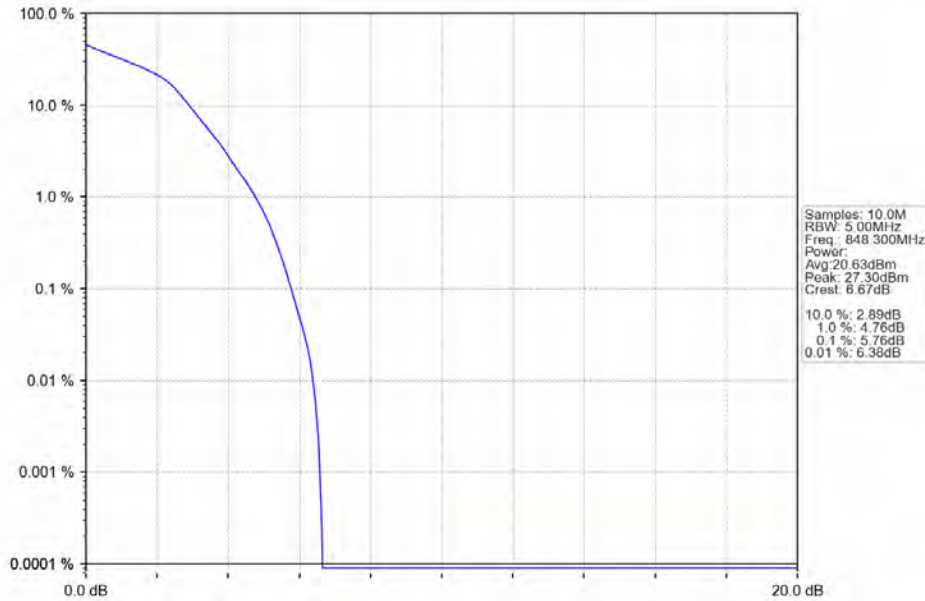
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## 4.2 B5\_3MHz

### 4.2.1 Test Result

| Band: 5 / Bandwidth: 3MHz / NTNV |                 |               |        |                         |       |         |
|----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                  |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                             | 825.5           | 15            | 0      | 5.29                    | <=13  | Pass    |
|                                  | 836.5           | 15            | 0      | 5.39                    | <=13  | Pass    |
|                                  | 847.5           | 15            | 0      | 5.15                    | <=13  | Pass    |
| 16QAM                            | 825.5           | 15            | 0      | 6.08                    | <=13  | Pass    |
|                                  | 836.5           | 15            | 0      | 6.21                    | <=13  | Pass    |
|                                  | 847.5           | 15            | 0      | 5.96                    | <=13  | Pass    |



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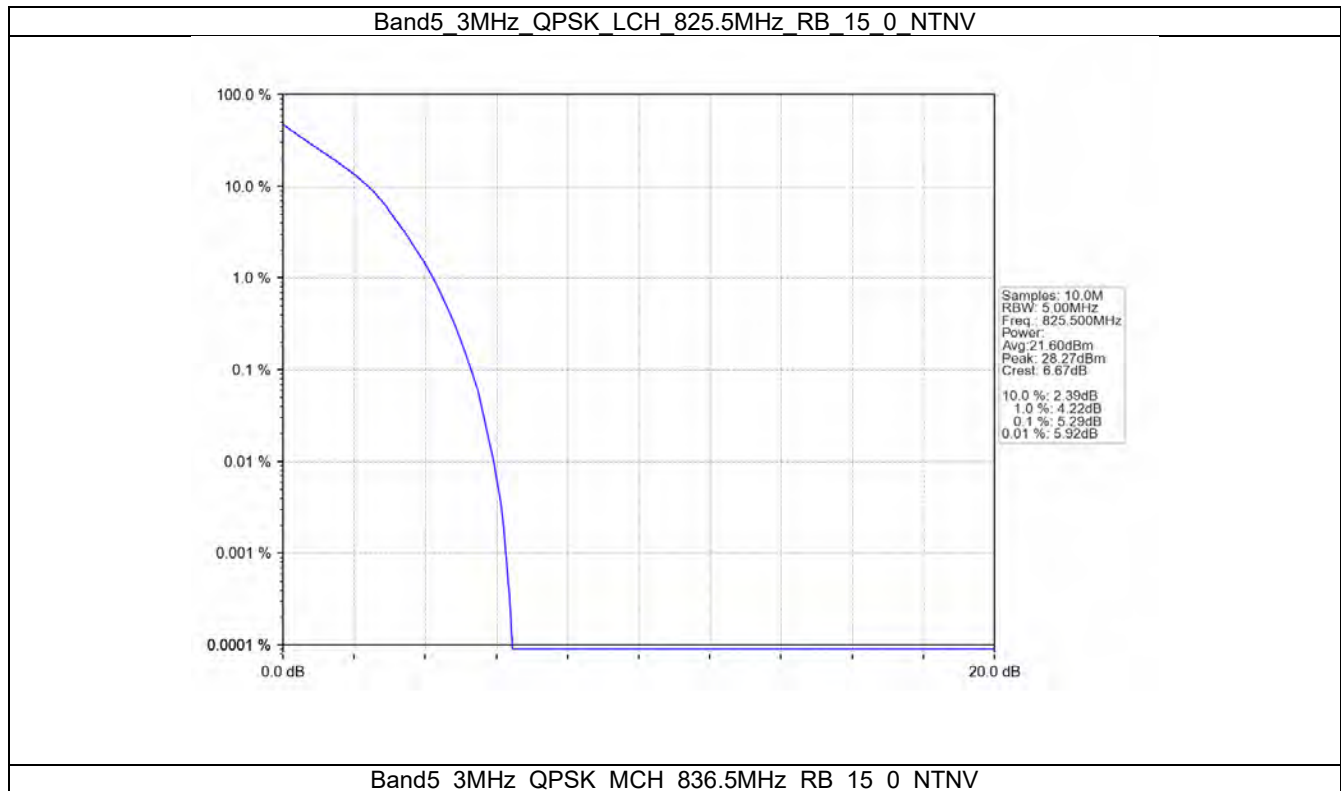
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### 4.2.2 Test Graph



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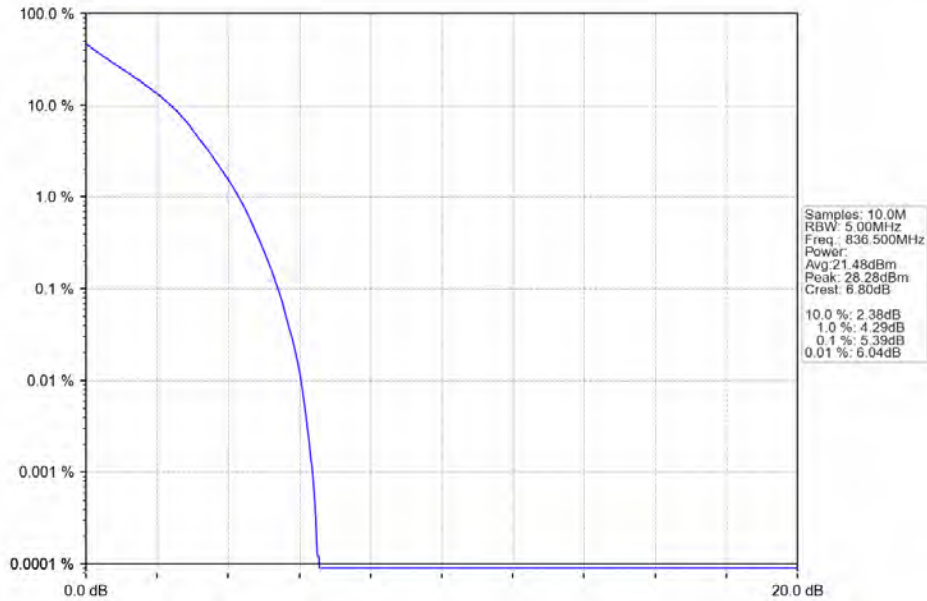
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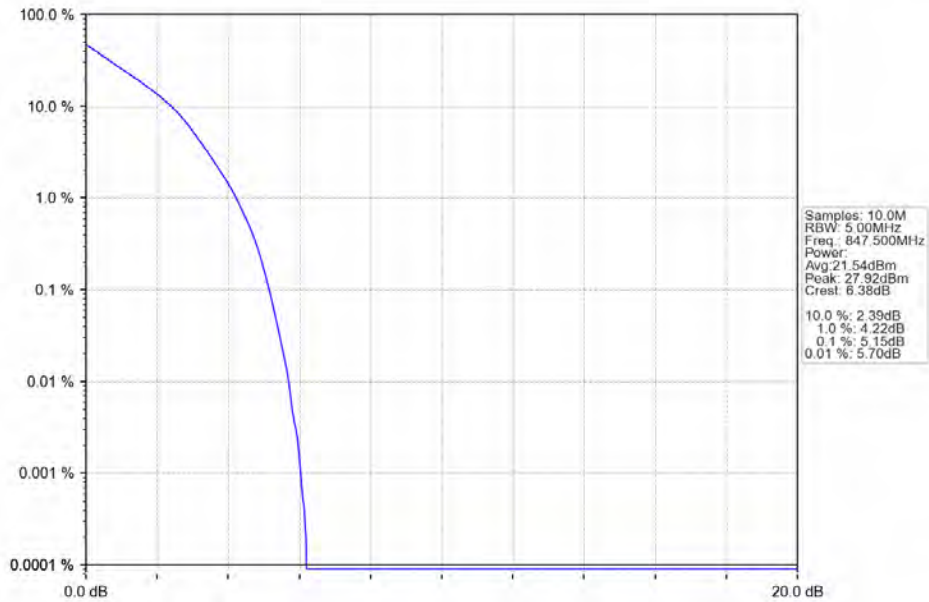


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Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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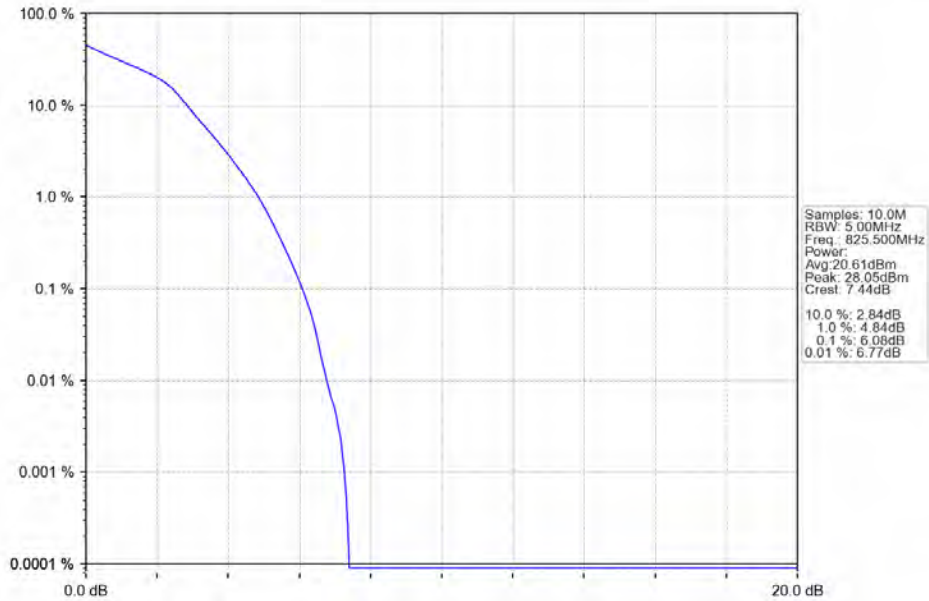
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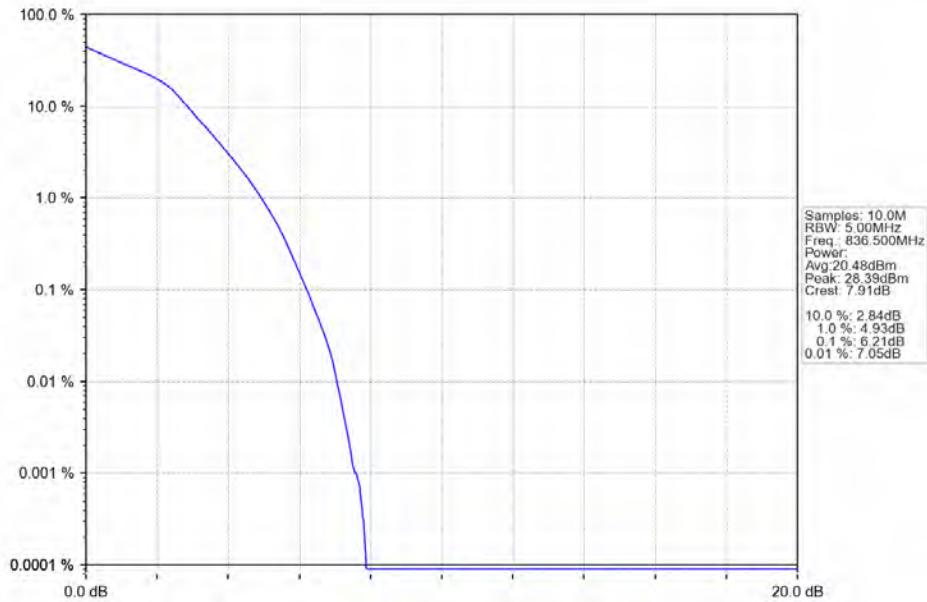
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Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



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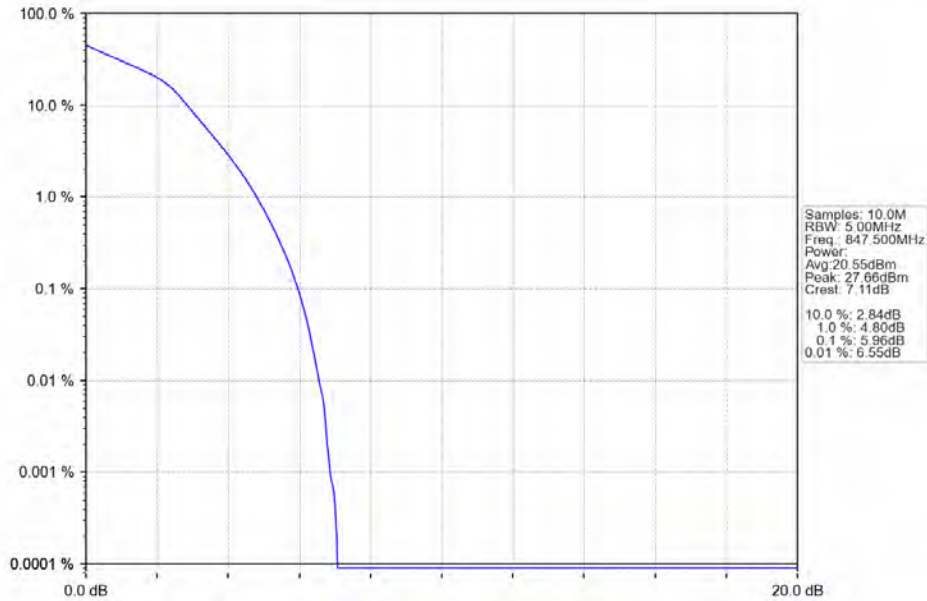
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## 4.3 B5\_5MHz

### 4.3.1 Test Result

| Band: 5 / Bandwidth: 5MHz / NTNV |                 |               |        |                         |       |         |
|----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                  |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                             | 826.5           | 25            | 0      | 5.47                    | <=13  | Pass    |
|                                  | 836.5           | 25            | 0      | 5.61                    | <=13  | Pass    |
|                                  | 846.5           | 25            | 0      | 5.37                    | <=13  | Pass    |
| 16QAM                            | 826.5           | 25            | 0      | 6.11                    | <=13  | Pass    |
|                                  | 836.5           | 25            | 0      | 6.25                    | <=13  | Pass    |
|                                  | 846.5           | 25            | 0      | 6.09                    | <=13  | Pass    |



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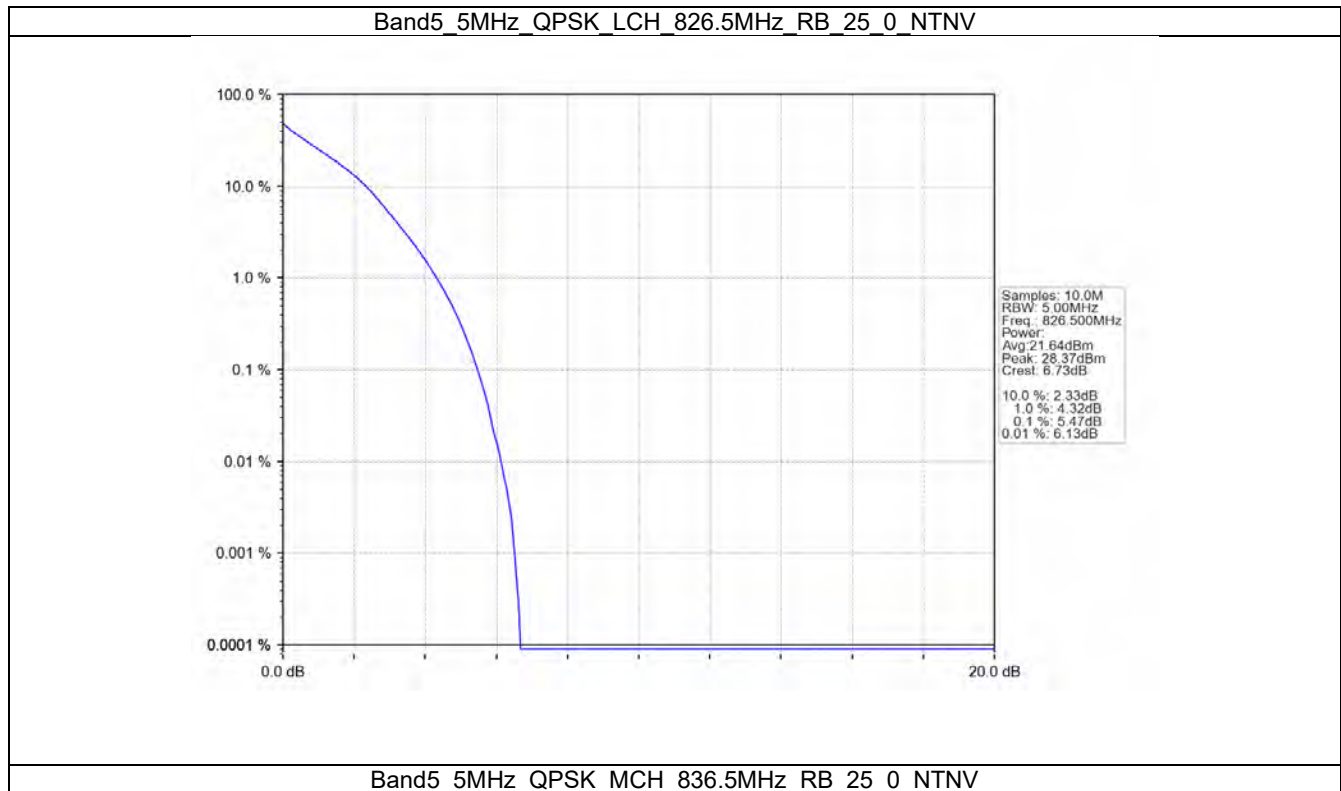
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### 4.3.2 Test Graph



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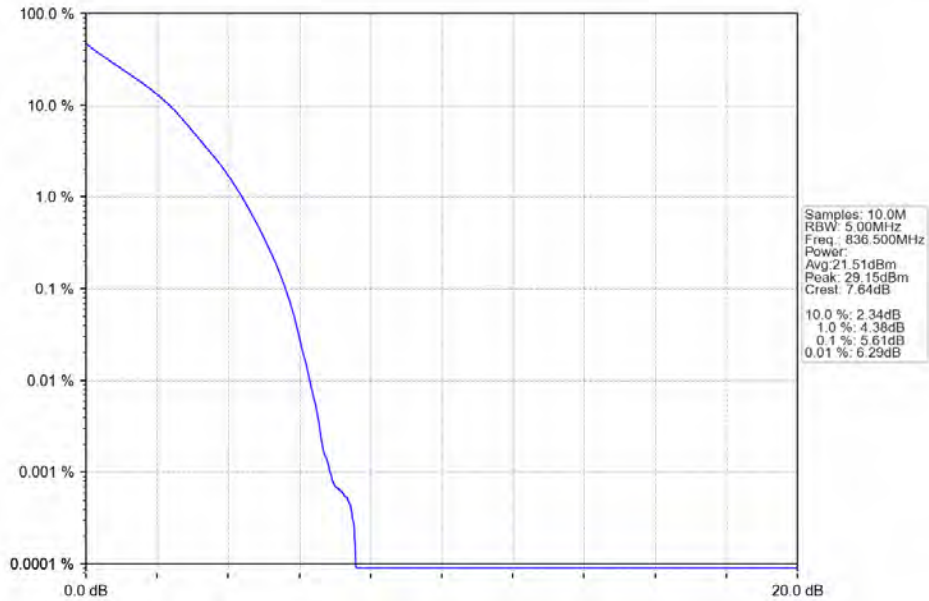
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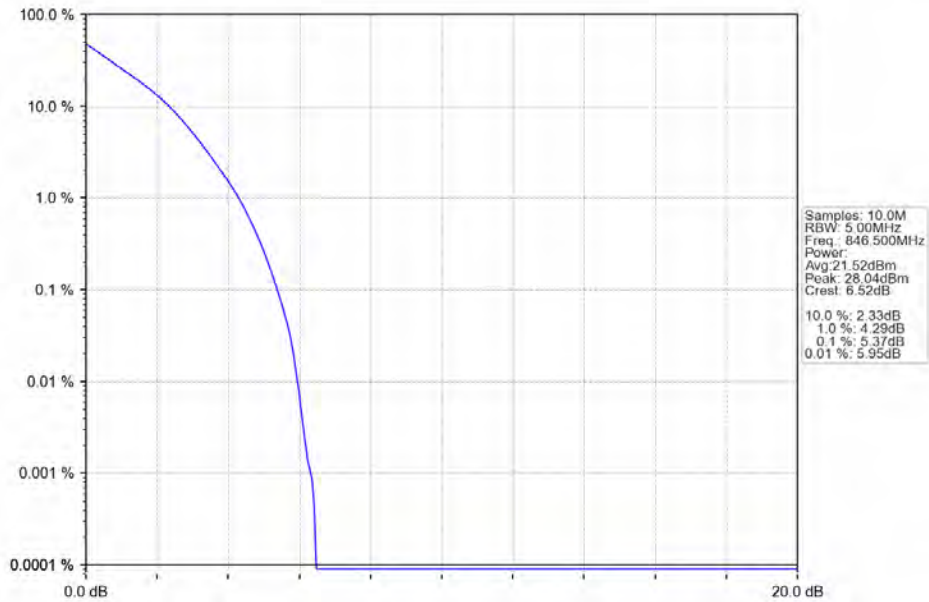
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Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



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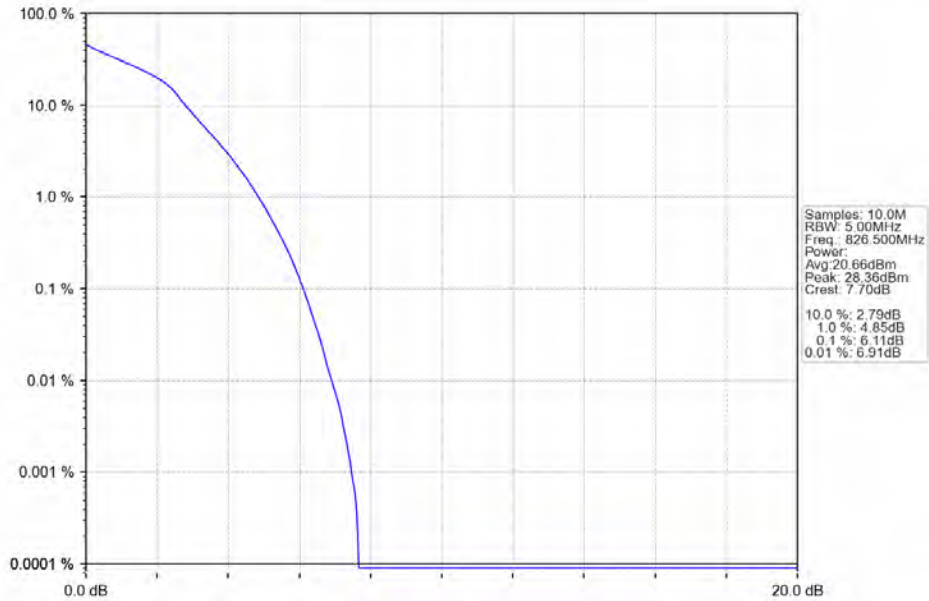
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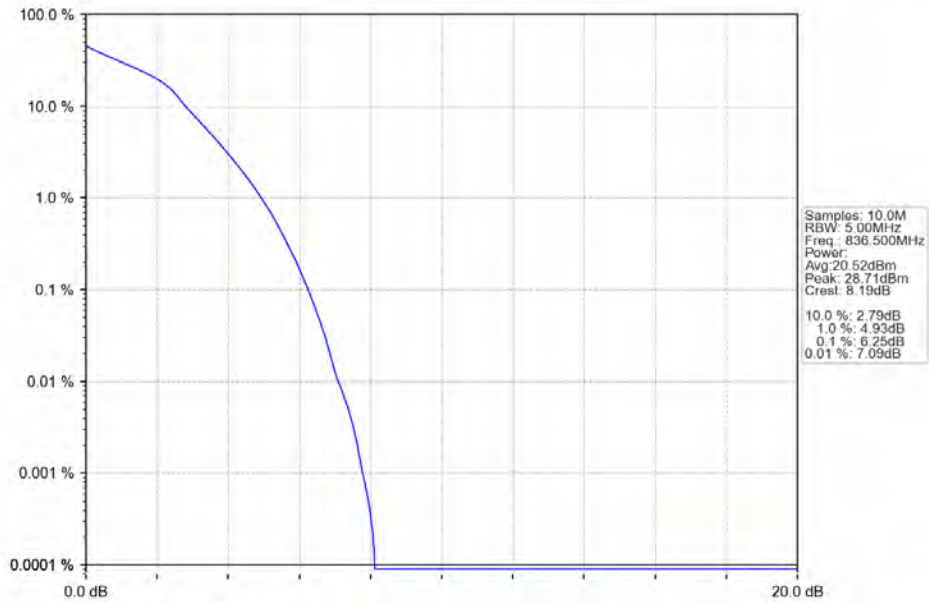
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Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



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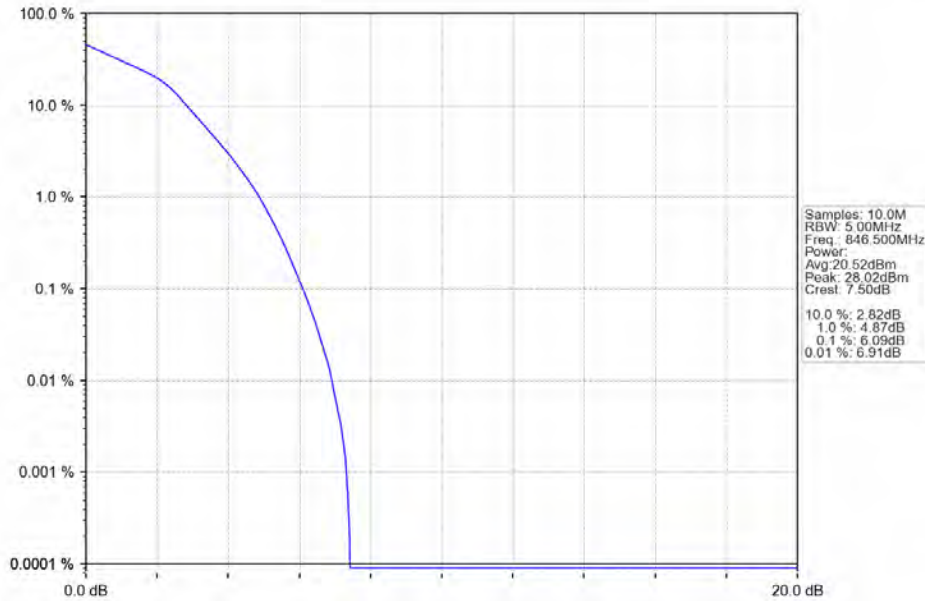
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## 4.4 B5\_10MHz

### 4.4.1 Test Result

| Band: 5 / Bandwidth: 10MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 829             | 50            | 0      | 5.52                    | <=13  | Pass    |
|                                   | 836.5           | 50            | 0      | 5.54                    | <=13  | Pass    |
|                                   | 844             | 50            | 0      | 5.38                    | <=13  | Pass    |
| 16QAM                             | 829             | 50            | 0      | 6.18                    | <=13  | Pass    |
|                                   | 836.5           | 50            | 0      | 6.27                    | <=13  | Pass    |
|                                   | 844             | 50            | 0      | 6.13                    | <=13  | Pass    |



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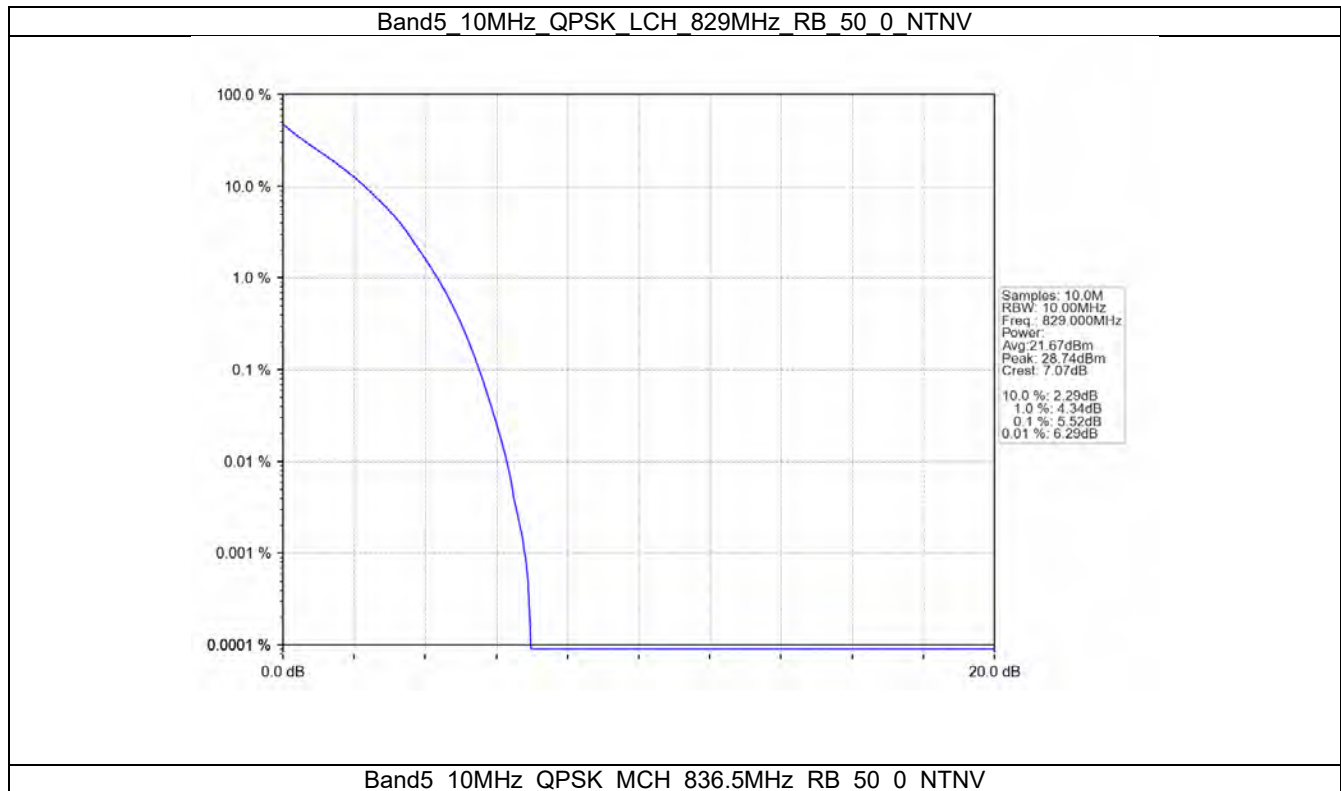


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### 4.4.2 Test Graph



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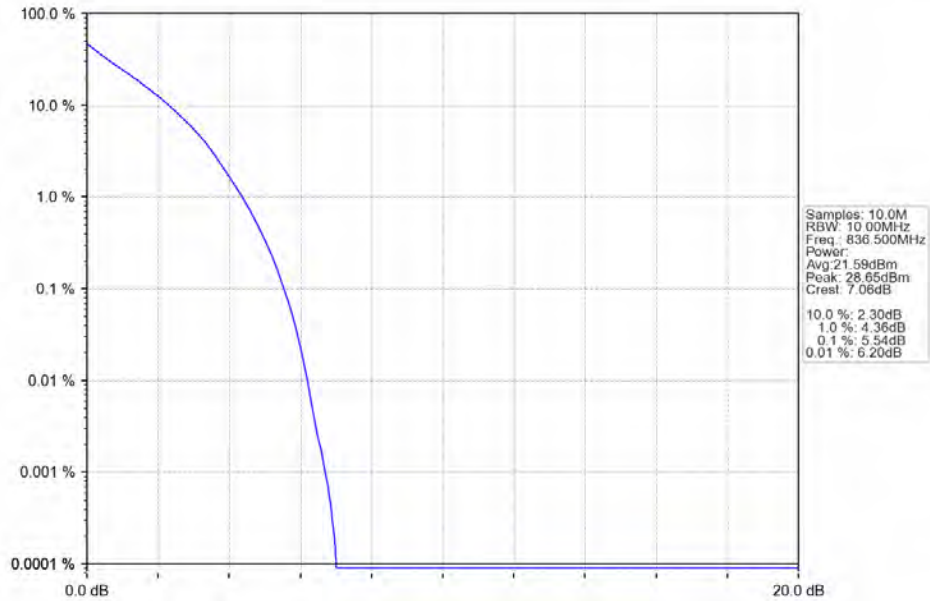
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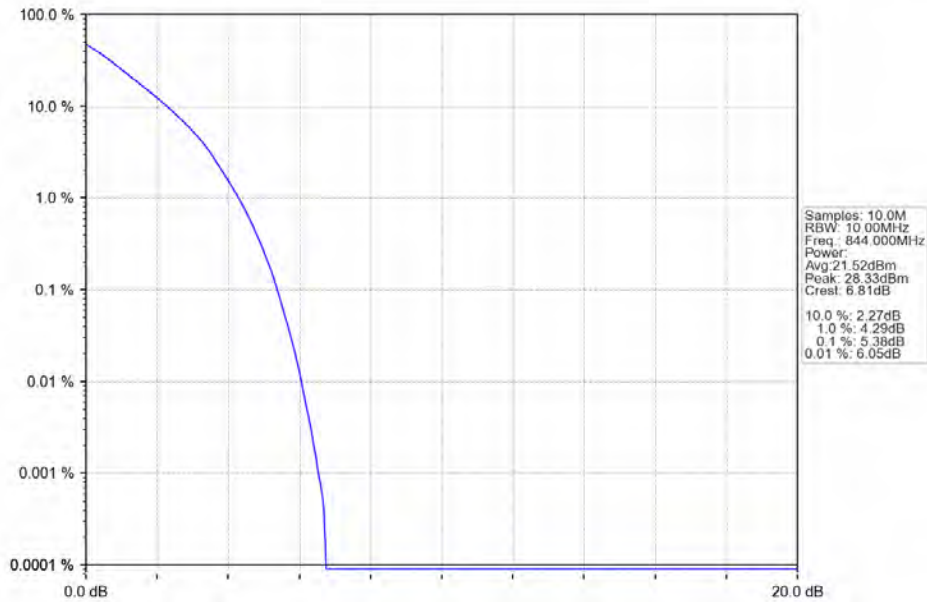
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Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



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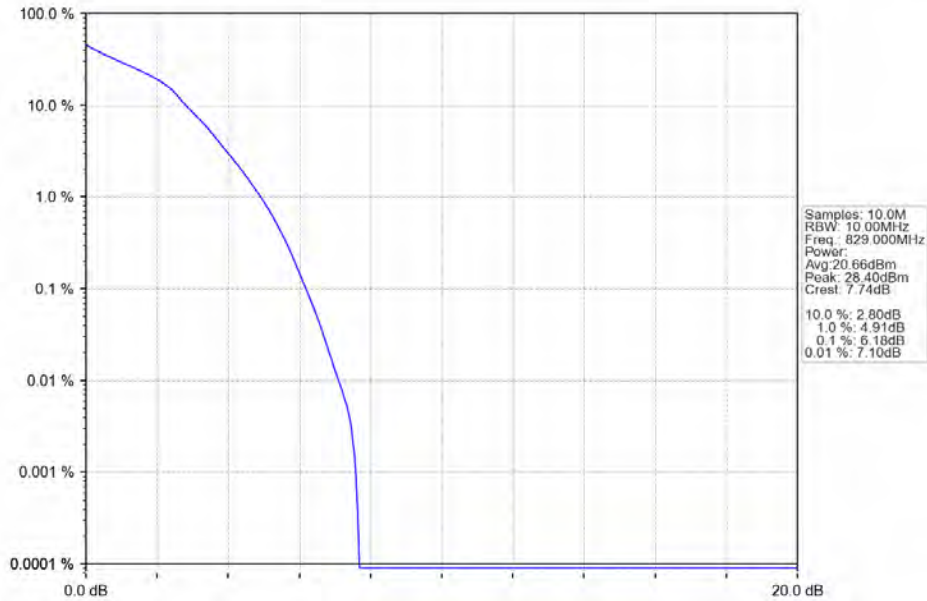
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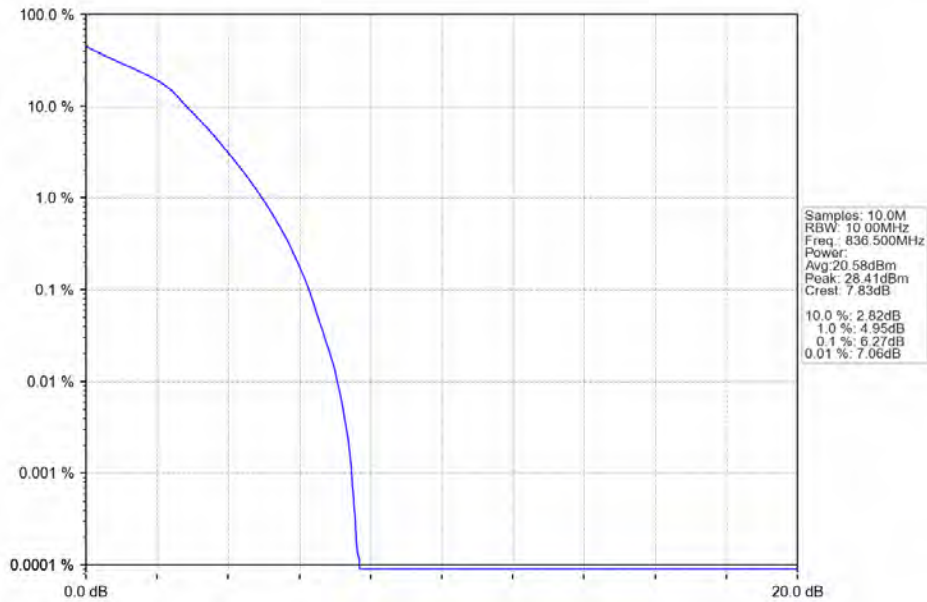


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Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



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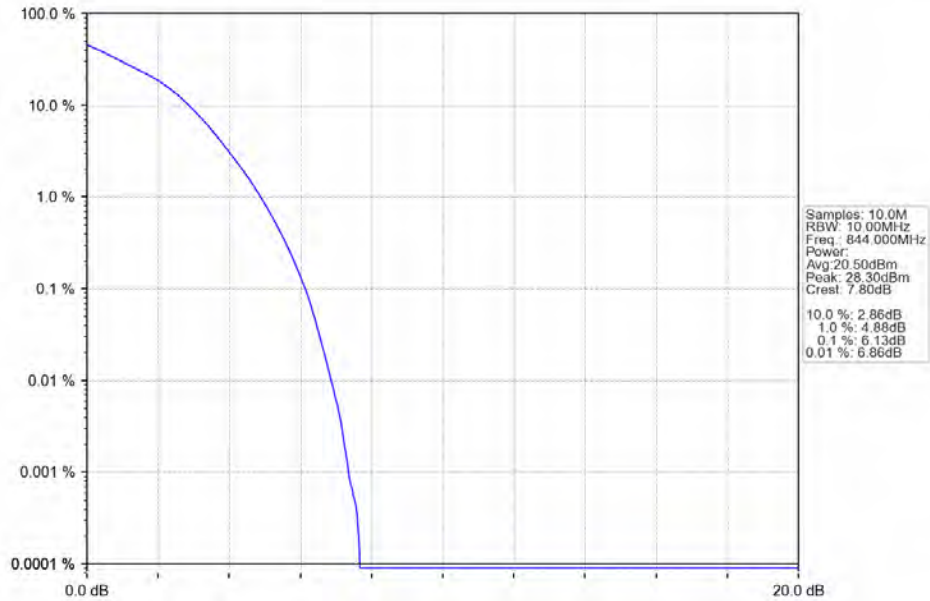
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## 5. Spurious Emission & Band Edges

### 5.1 B5\_1.4MHz

#### 5.1.1 Test Result

| Band: 5 / Bandwidth: 1.4MHz / NTVN |                 |               |        |                     |       |         |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| 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    |
| 16QAM                              | 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    |



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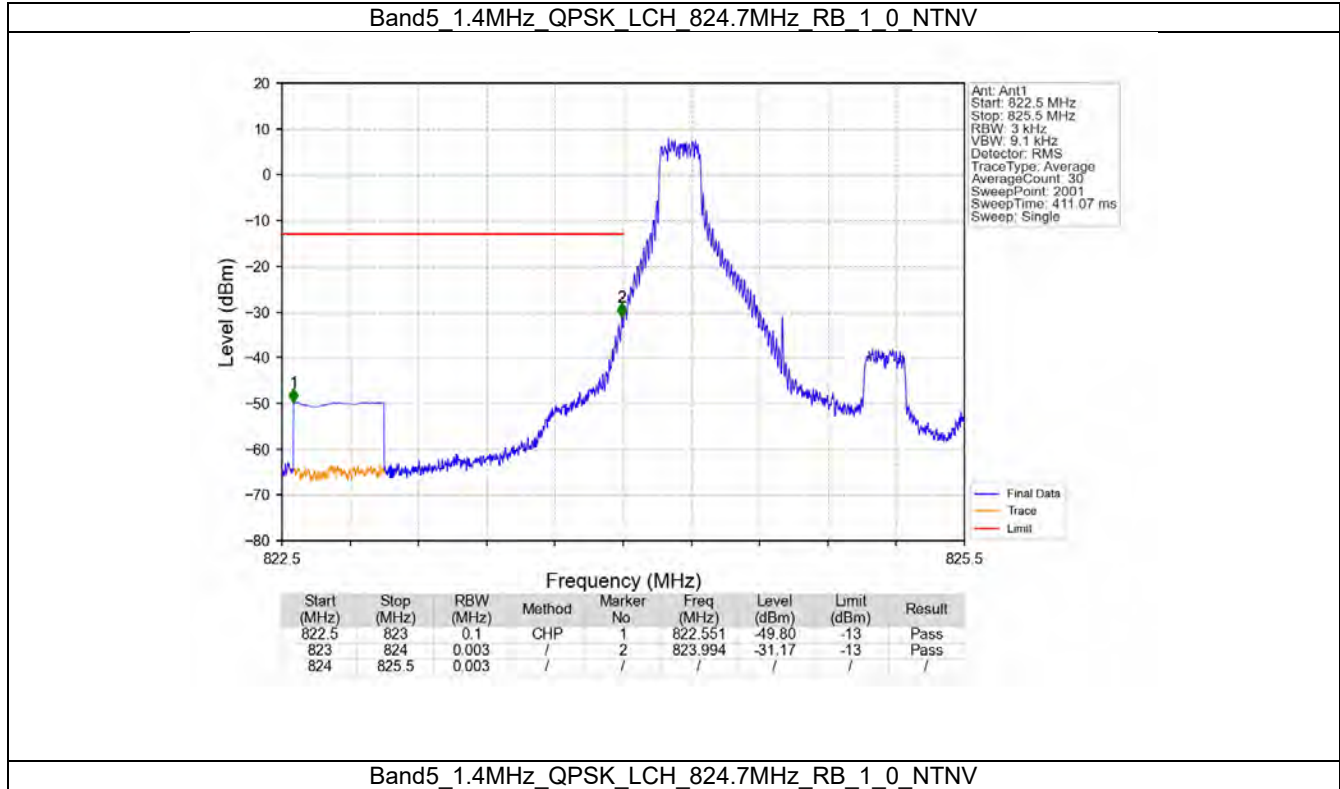
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### 5.1.2 Test Graph



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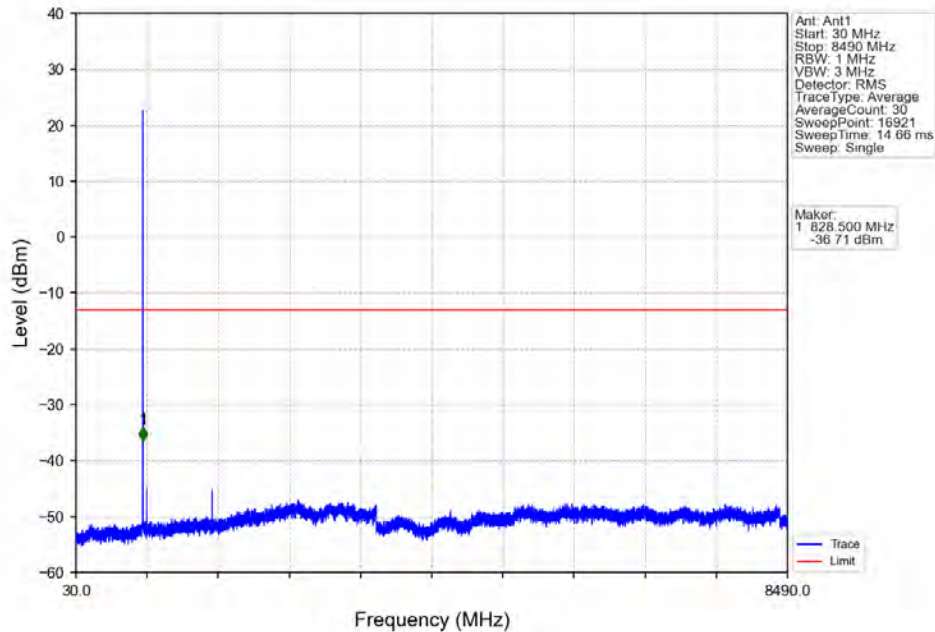
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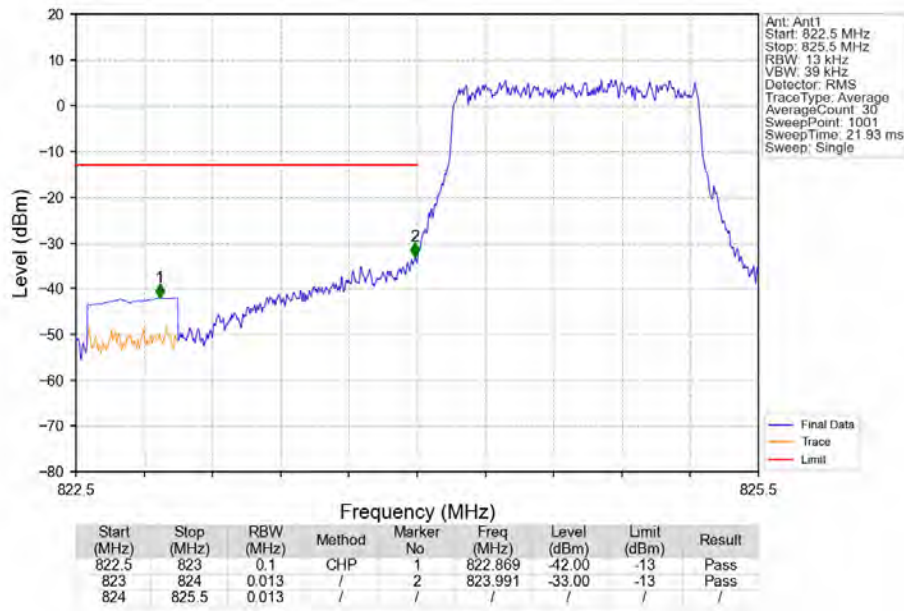
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Band5 1.4MHz QPSK MCH 836.5MHz\_RB\_1\_0 NTN



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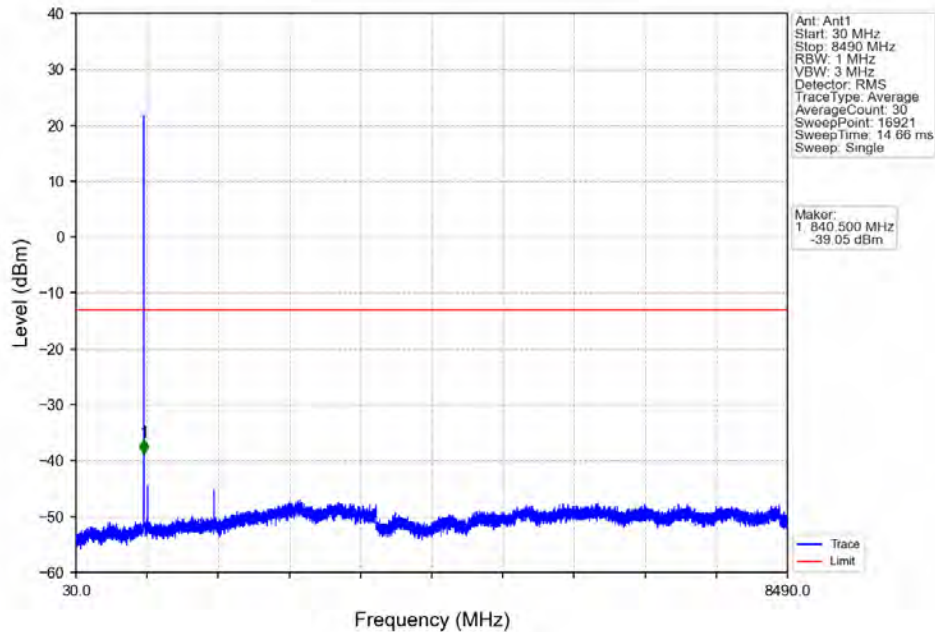
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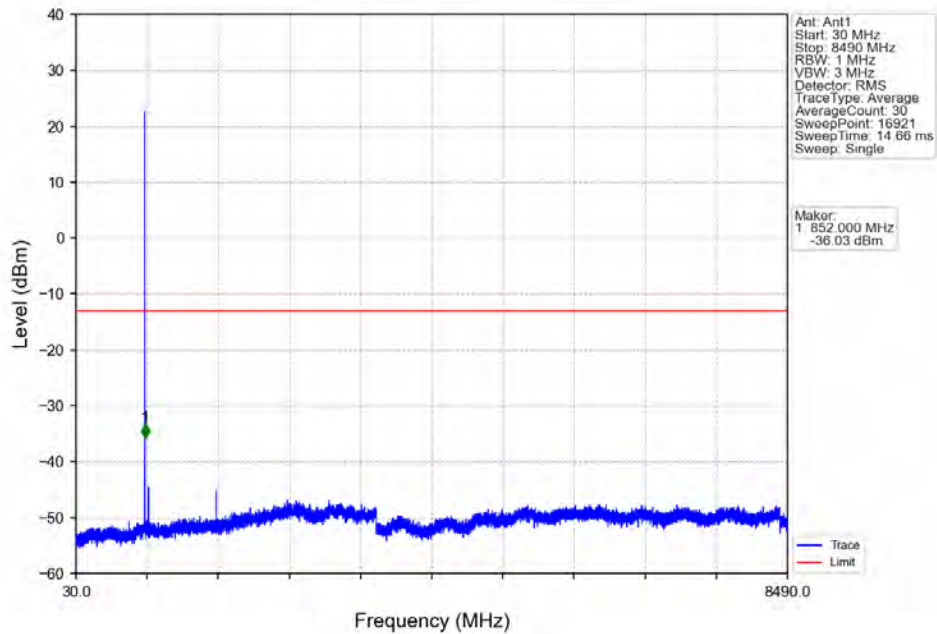
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Band5 1.4MHz QPSK HCH 848.3MHz RB 1\_0 NTNV



Band5 1.4MHz QPSK HCH 848.3MHz RB 1\_5 NTNV



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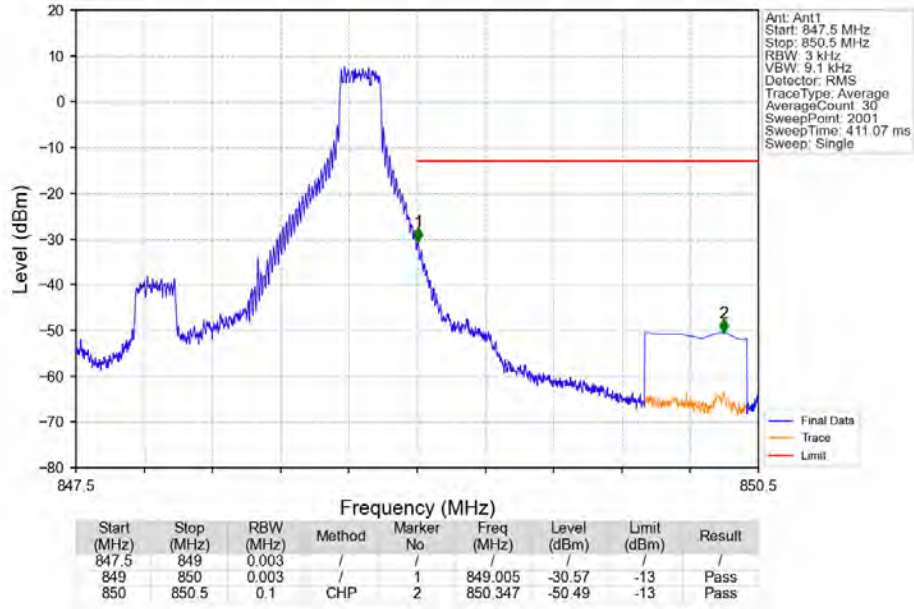
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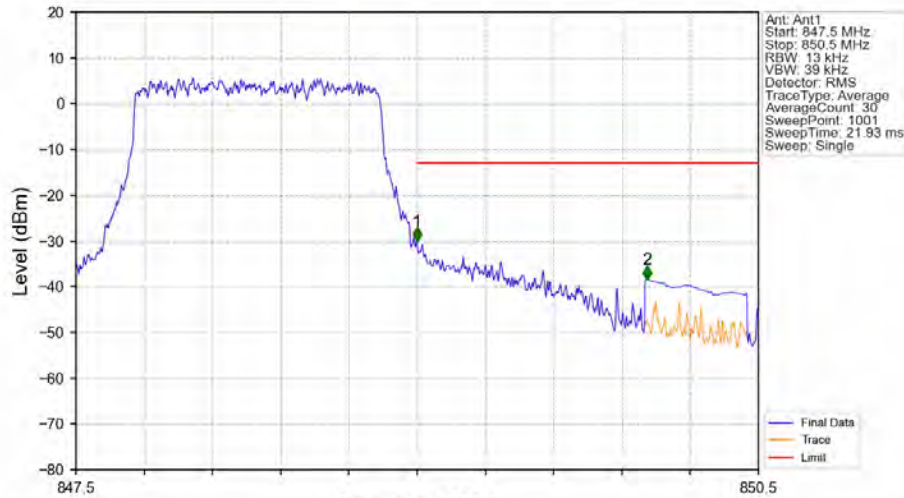
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Band5 1.4MHz QPSK HCH 848.3MHz RB 6 0 NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 847.5       | 849        | 0.013     | /      | /         | /          | /           | /           | /      |
| 849         | 850        | 0.013     | /      | 1         | 849.000    | -30.05      | -13         | Pass   |
| 850         | 850.5      | 0.1       | CHP    | 2         | 850.011    | -38.49      | -13         | Pass   |

Band5 1.4MHz 16QAM LCH 824.7MHz RB 1 0 NTNV



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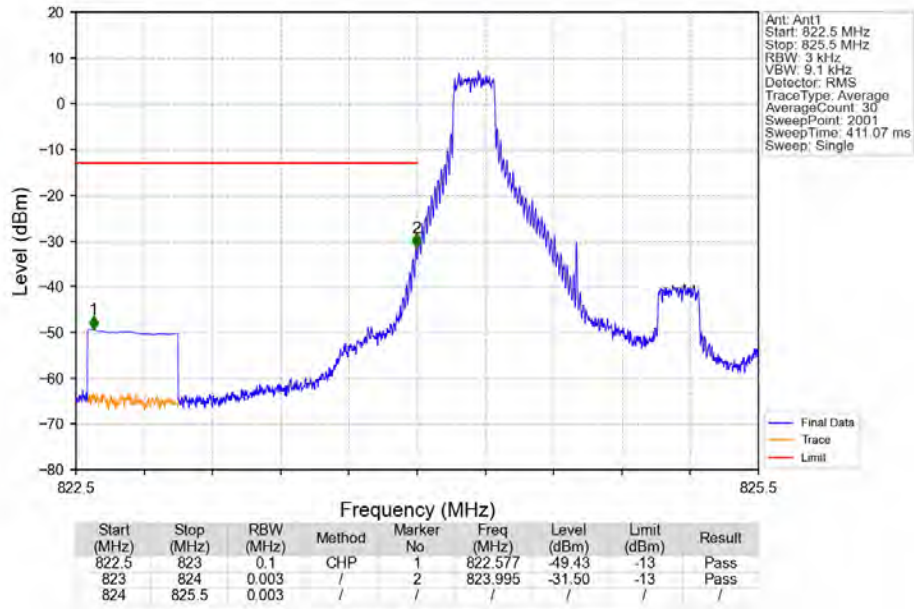
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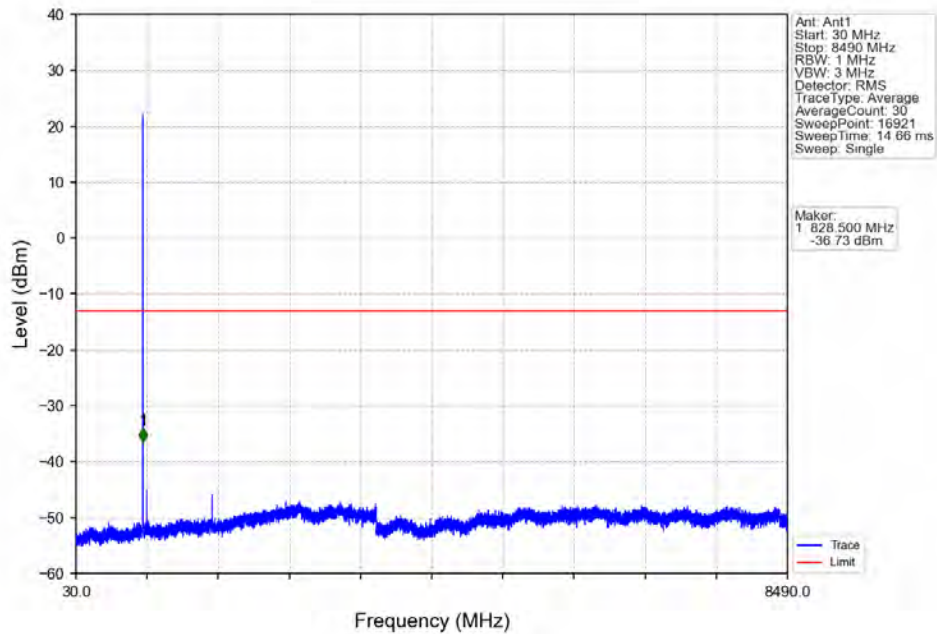
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Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_1\_0\_NTNV



Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



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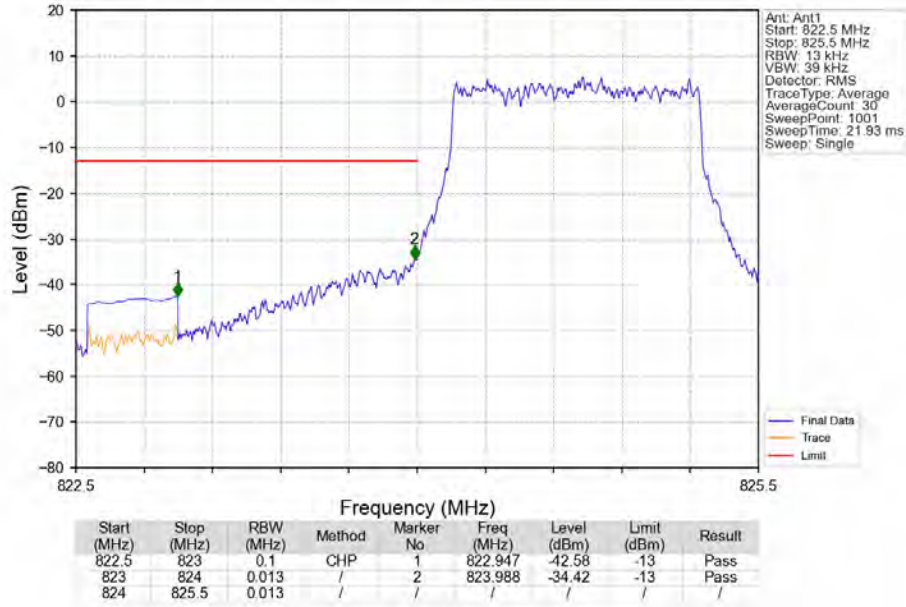
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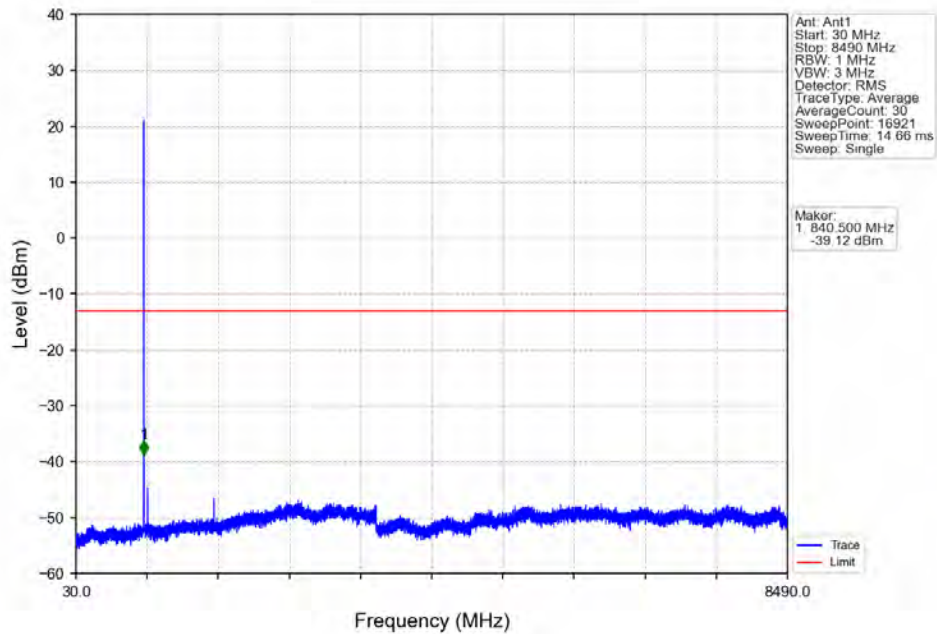
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Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_1\_0\_NTNV



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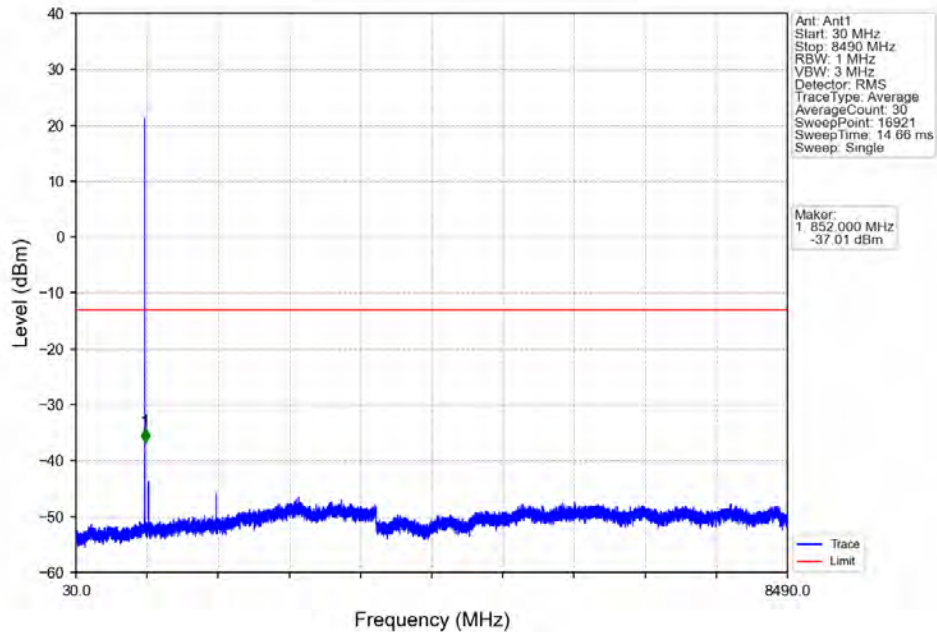
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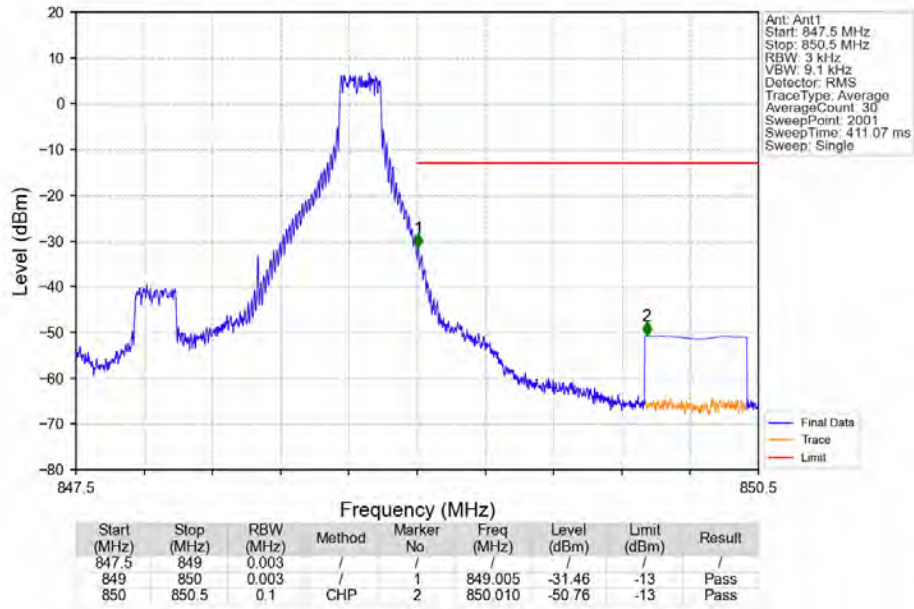
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Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_1\_5\_NTNV



Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



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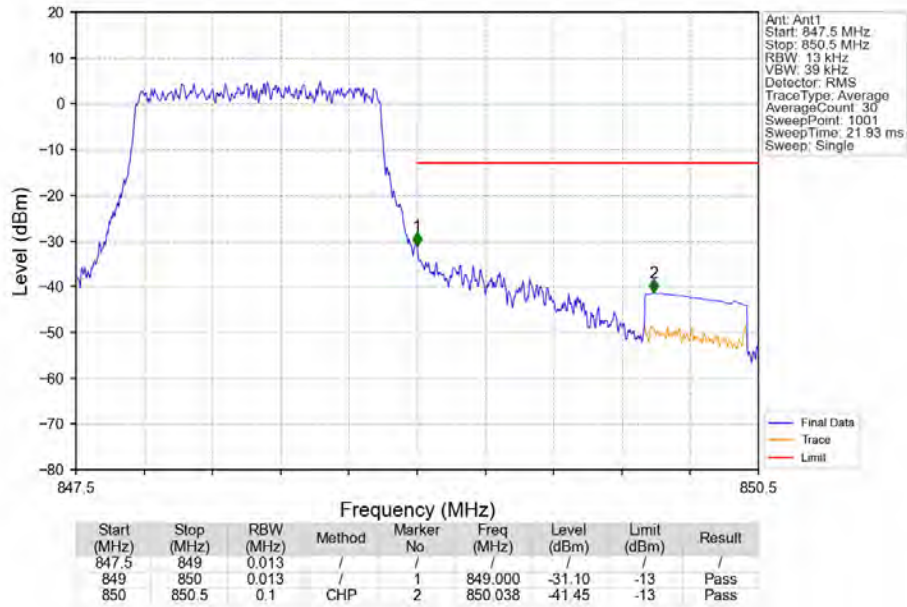
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## 5.2 B5\_3MHz

### 5.2.1 Test Result

| 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    |
|                                  | 847.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 15            | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 15            | 0      | Refer To Test Graph |       | Pass    |
| 16QAM                            | 825.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 15            | 0      | Refer To Test Graph |       | Pass    |
|                                  | 847.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 15            | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 15            | 0      | Refer To Test Graph |       | Pass    |



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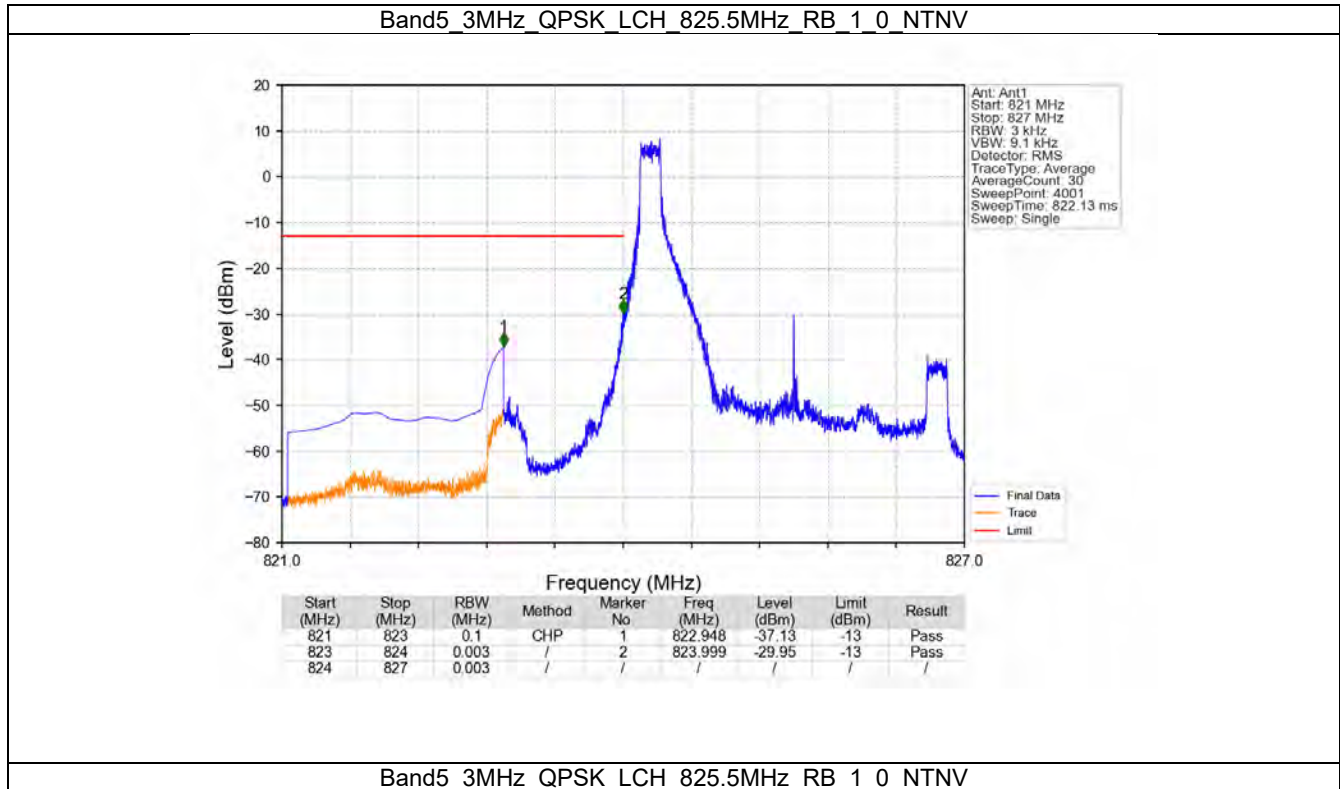
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### 5.2.2 Test Graph



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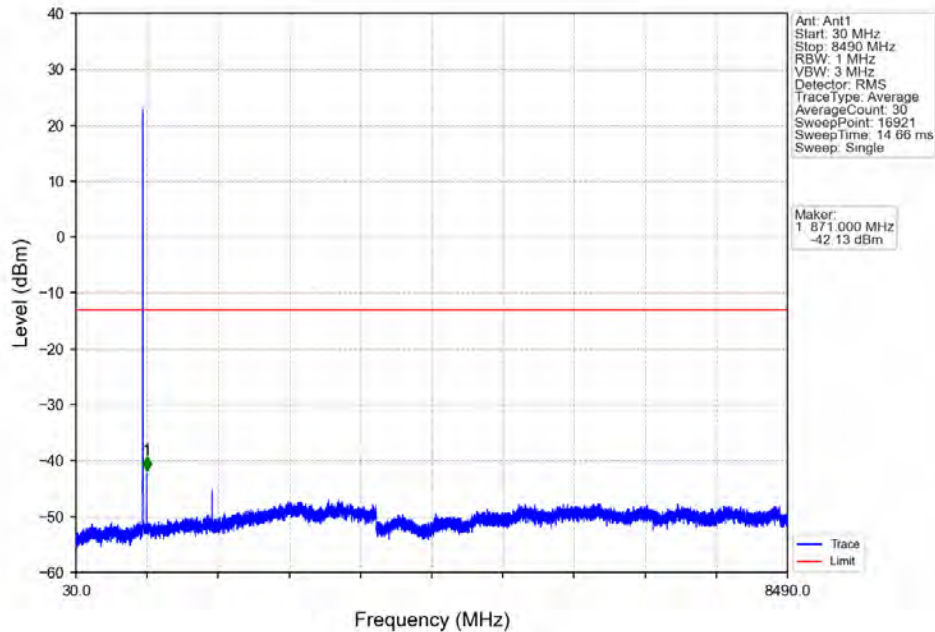
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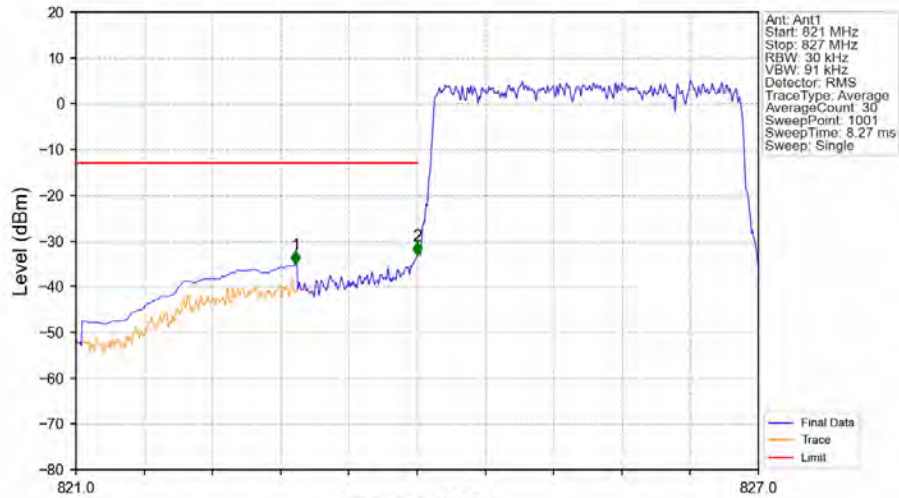


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Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 821         | 823        | 0.1       | CHP    | 1         | 822.932    | -35.26      | -13         | Pass   |
| 823         | 824        | 0.03      | /      | 2         | 824.000    | -33.24      | -13         | Pass   |
| 824         | 827        | 0.03      | /      | /         | /          | /           | /           | /      |

Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



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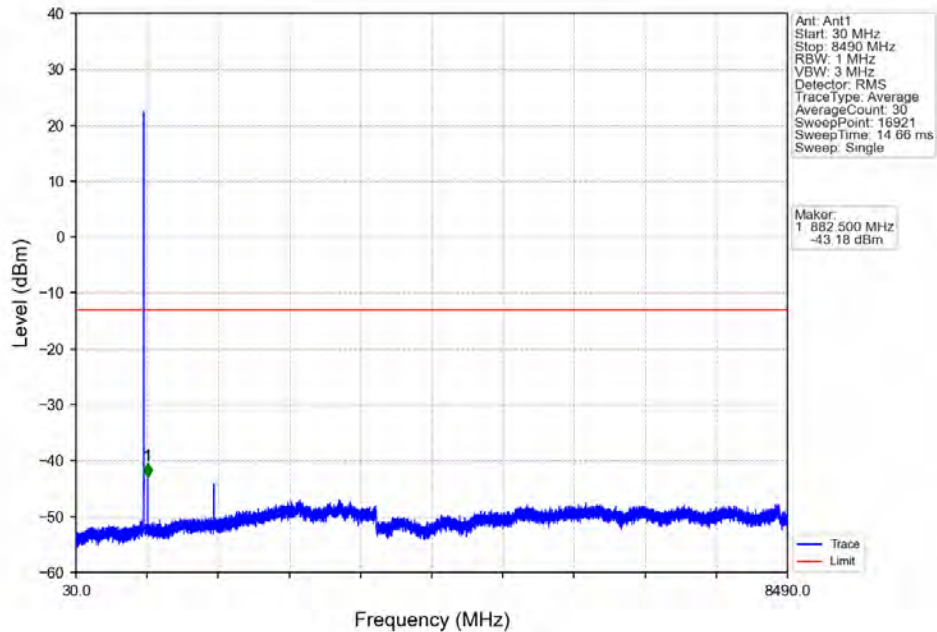
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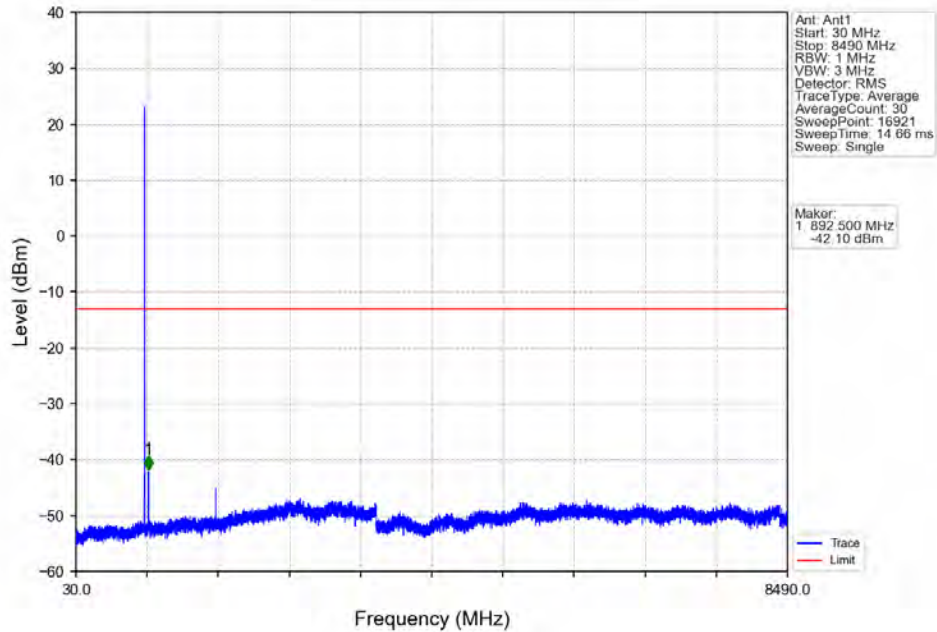
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Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_1\_0\_NTNV



Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_1\_14\_NTNV



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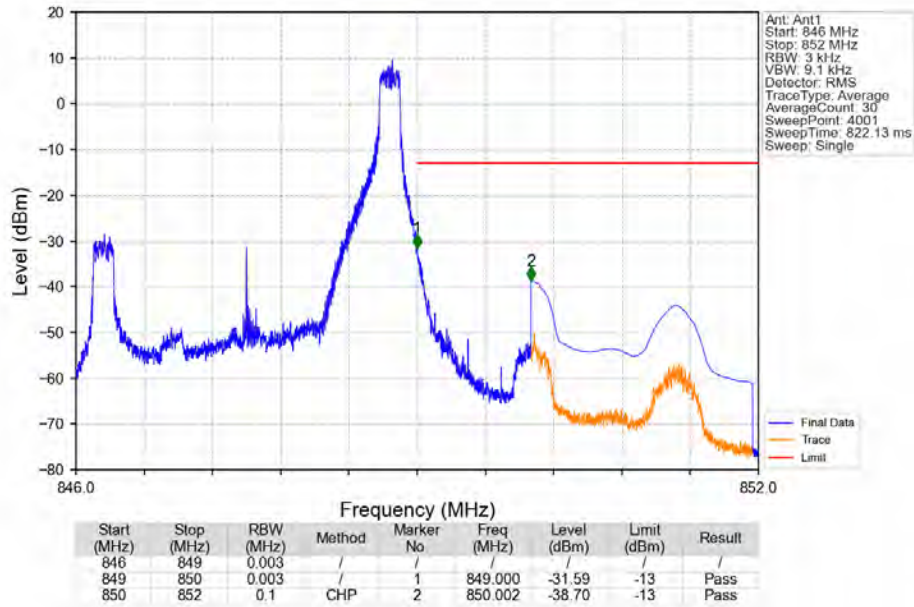
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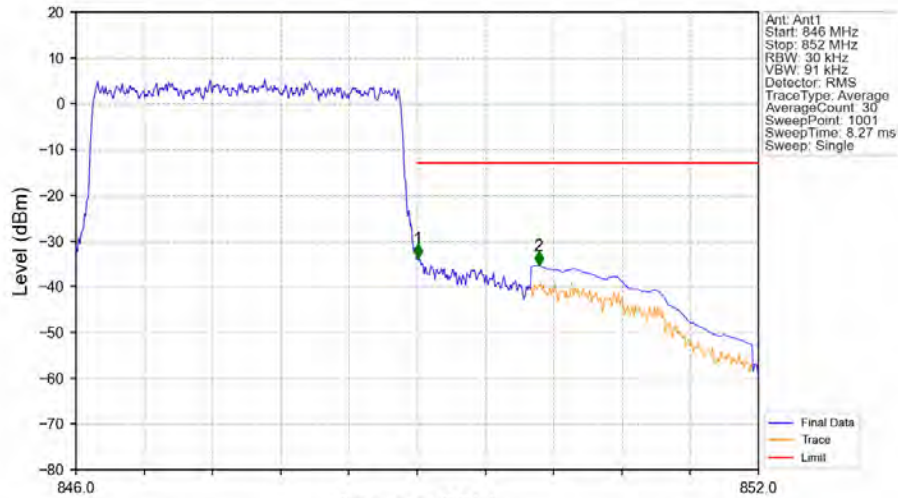


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Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 846         | 849        | 0.03      | /      | /         | /          | /           | /           | /      |
| 849         | 850        | 0.03      | /      | 1         | 849.006    | -33.82      | -13         | Pass   |
| 850         | 852        | 0.1       | CHP    | 2         | 850.068    | -35.36      | -13         | Pass   |

Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_1\_0\_NTNV



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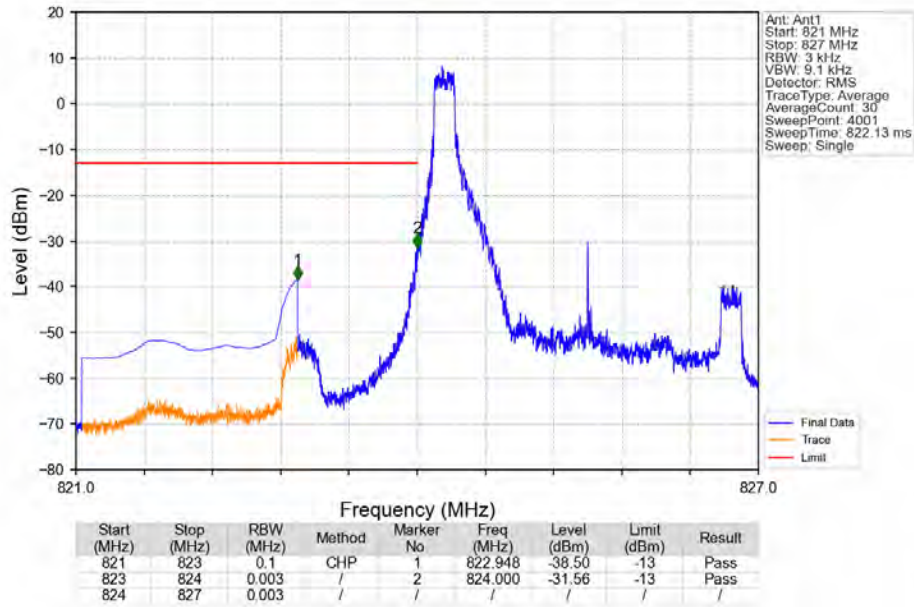
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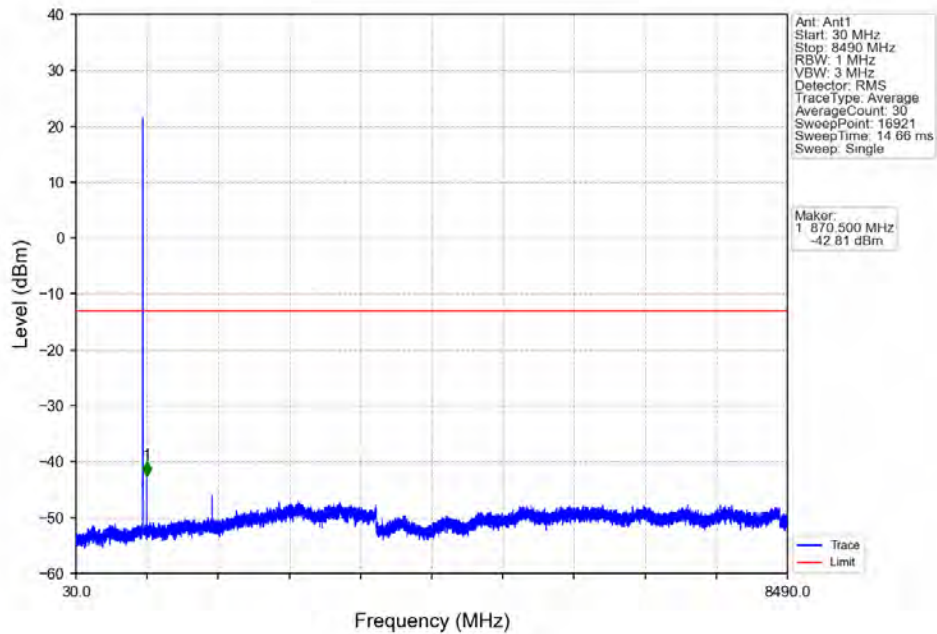
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Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_1\_0\_NTNV



Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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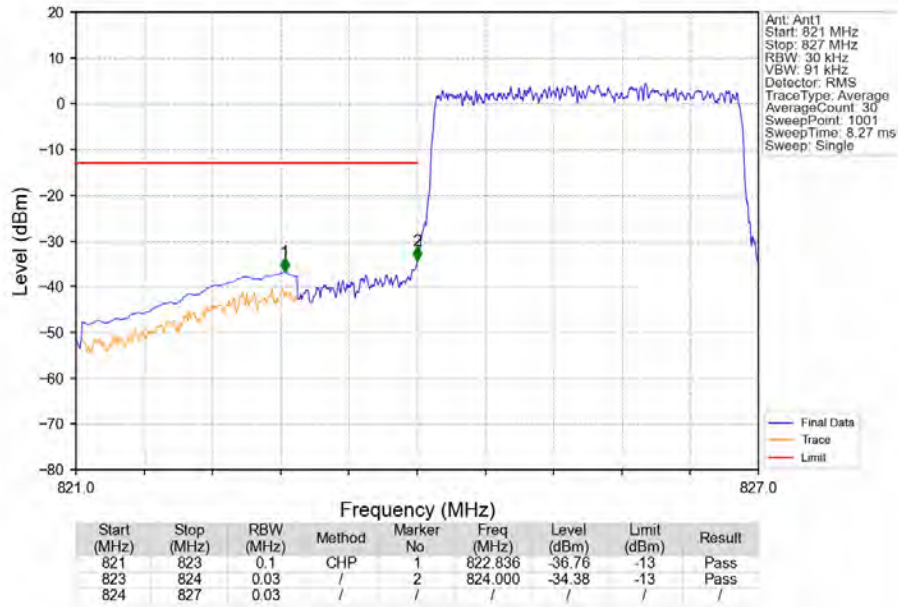
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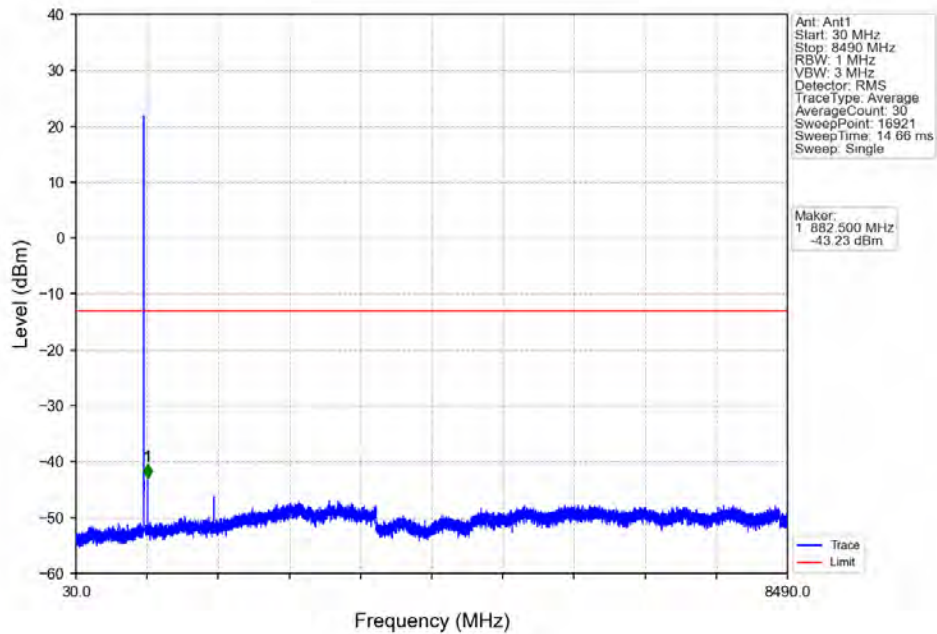


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Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_1\_0\_NTNV



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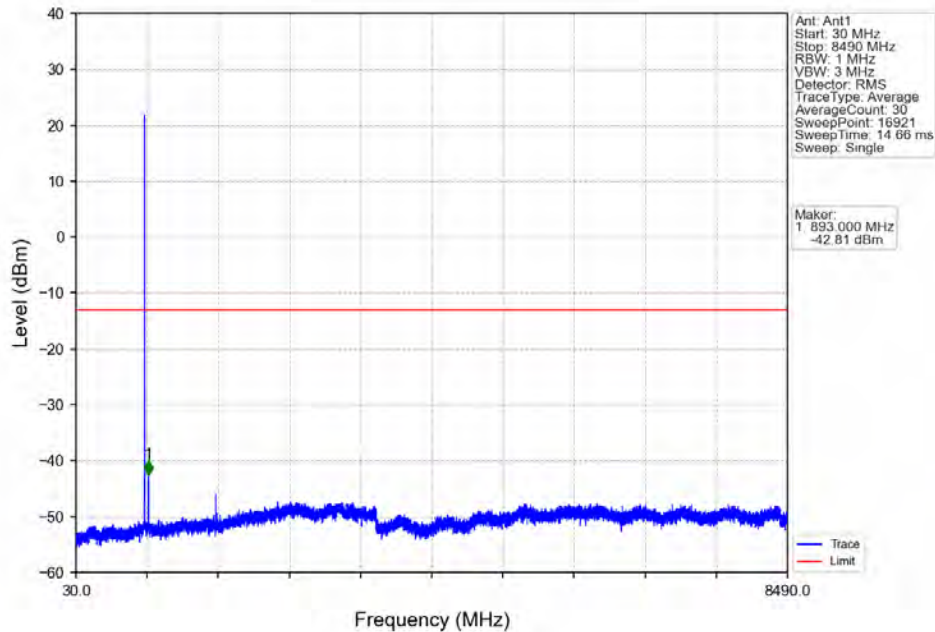
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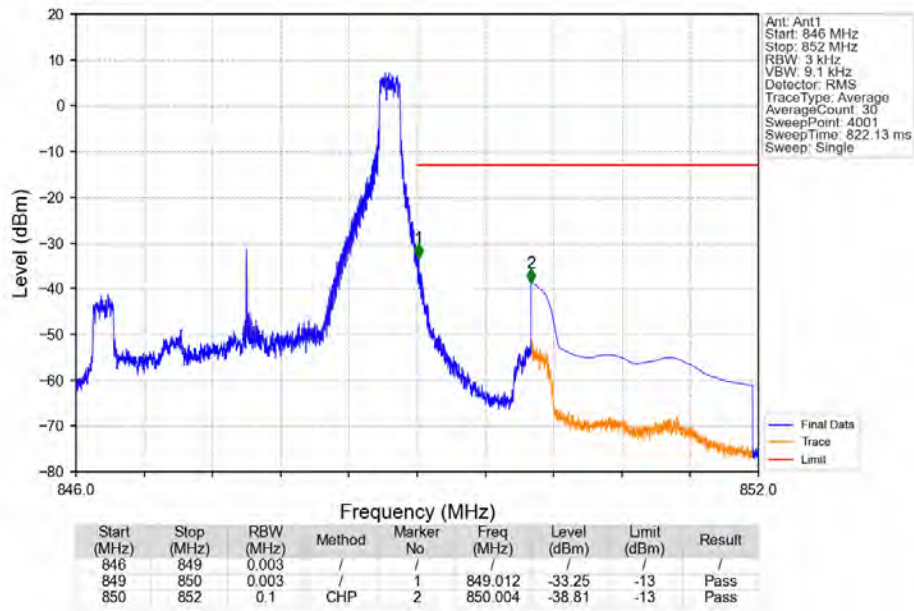
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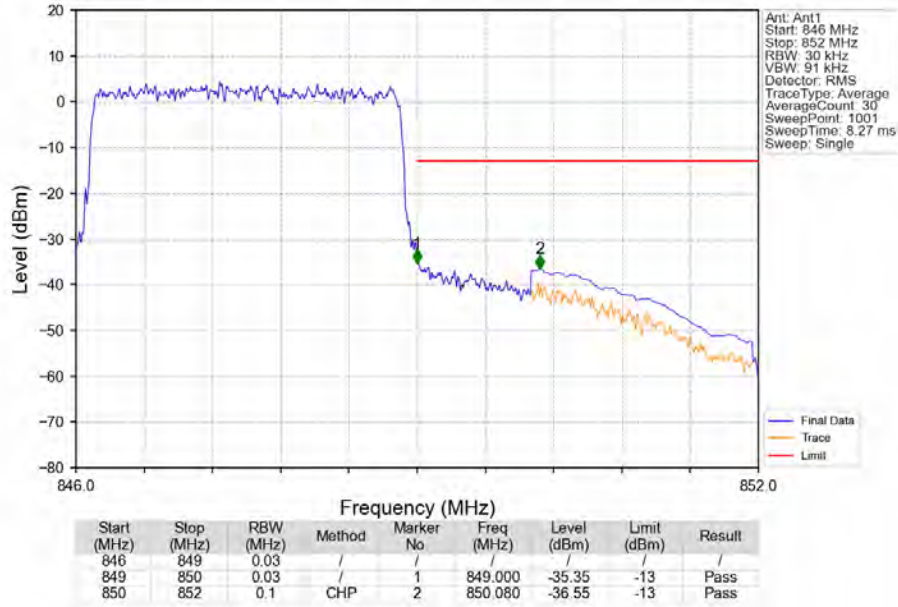
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## 5.3 B5\_5MHz

### 5.3.1 Test Result

| 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    |
|                                  |                 | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 24     | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
| 16QAM                            | 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    |
|                                  |                 | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 24     | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |



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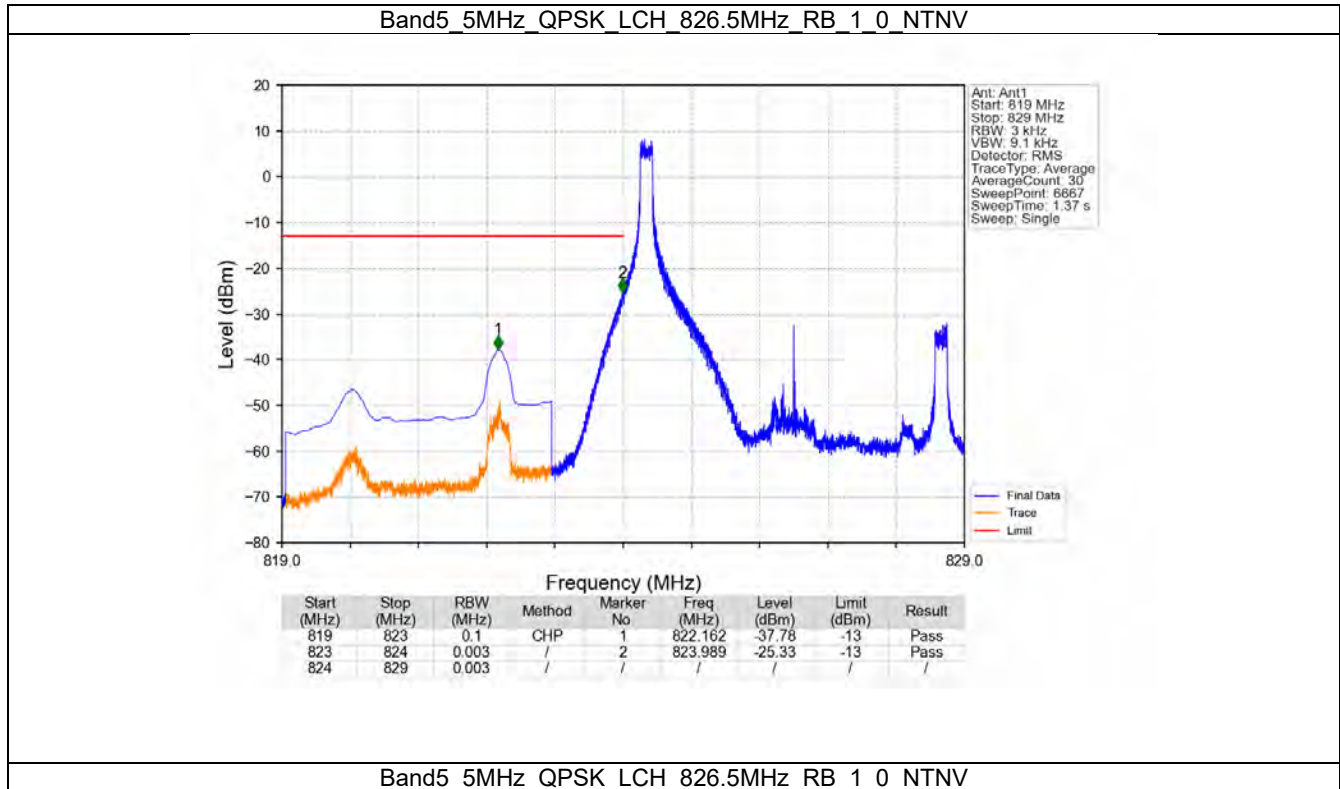
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### 5.3.2 Test Graph



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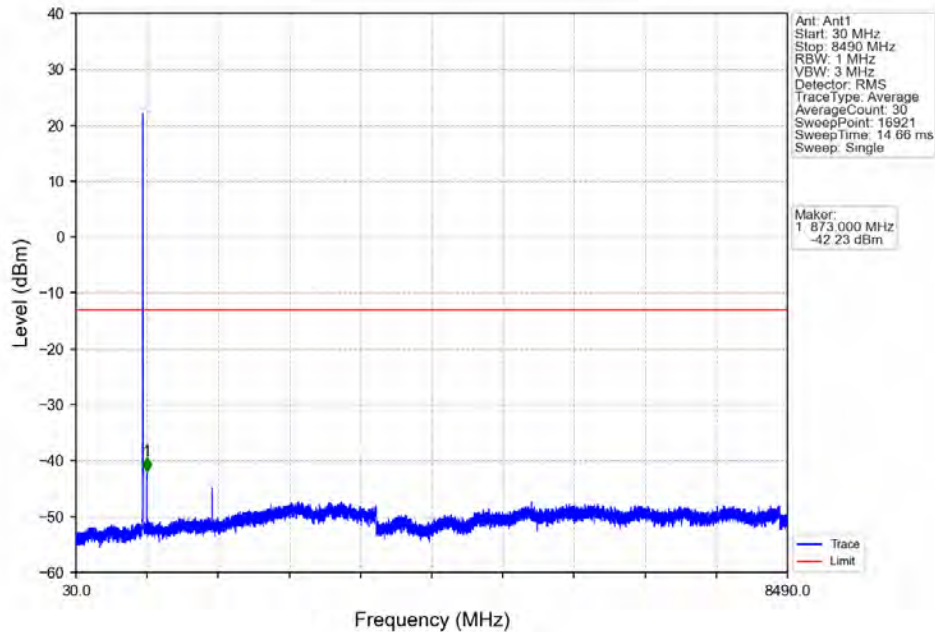
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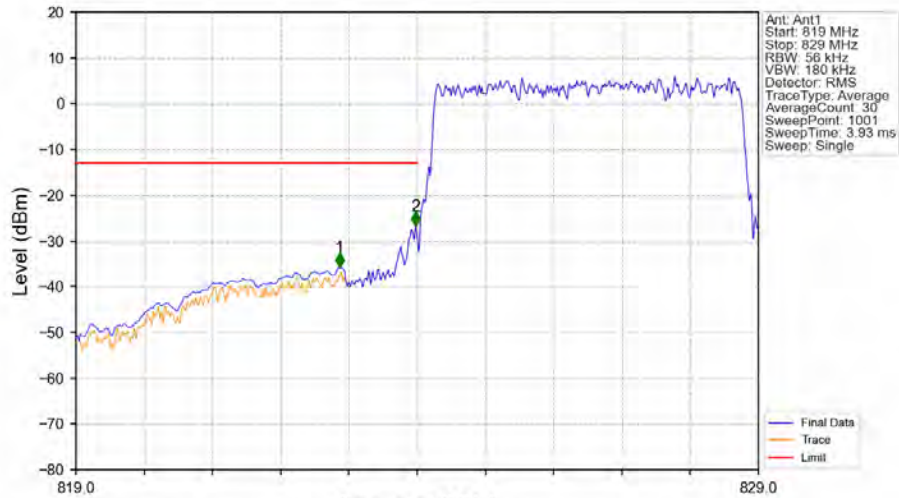
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Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|-----------|------------|-------------|-------------|--------|
| 819         | 823        | 0.1       | CHP    | 1         | 822.860    | -35.78      | -13         | Pass   |
| 823         | 824        | 0.056     | /      | 2         | 823.980    | -26.72      | -13         | Pass   |

Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



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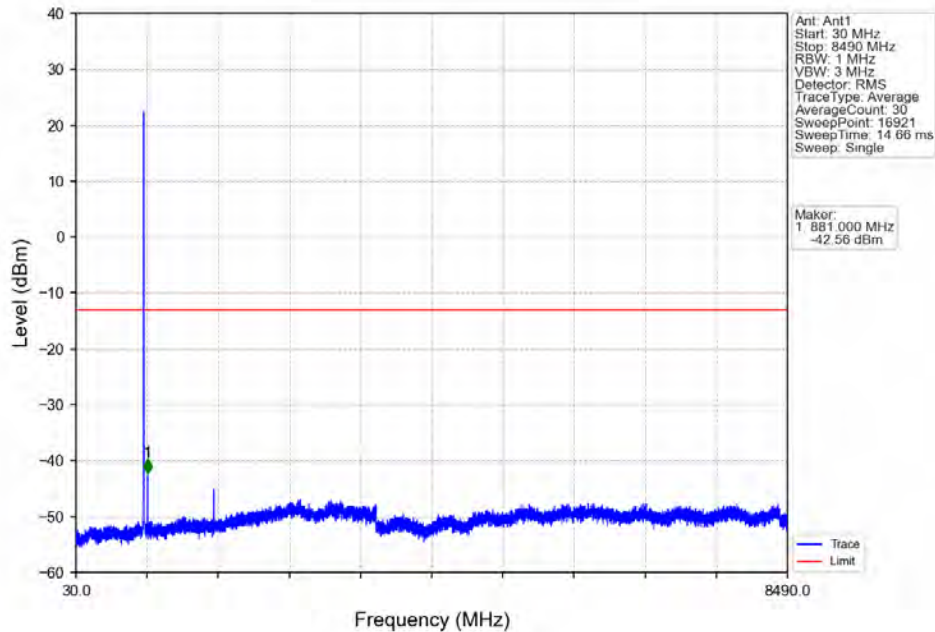
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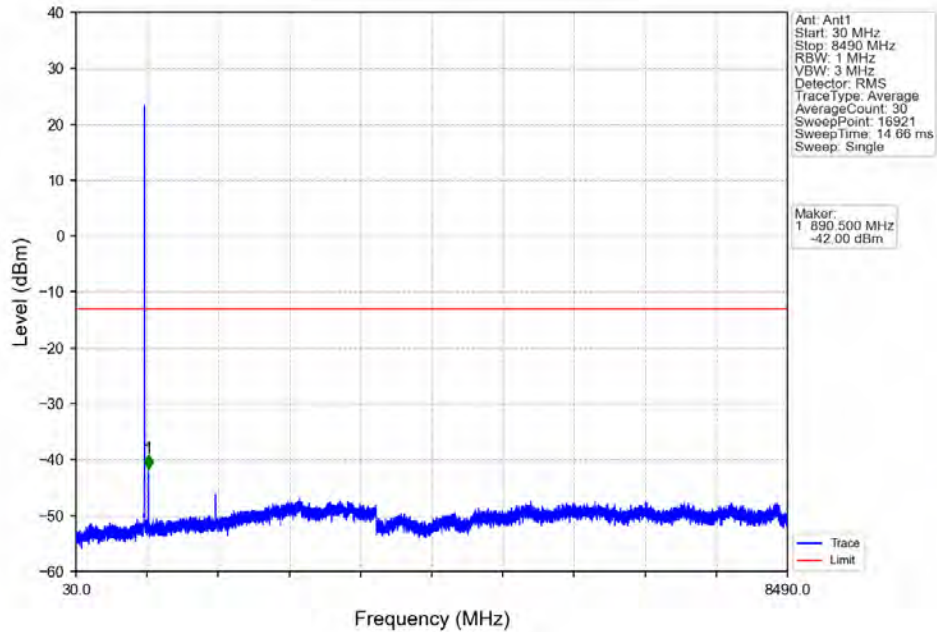
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Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_1\_0\_NTNV



Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_1\_24\_NTNV



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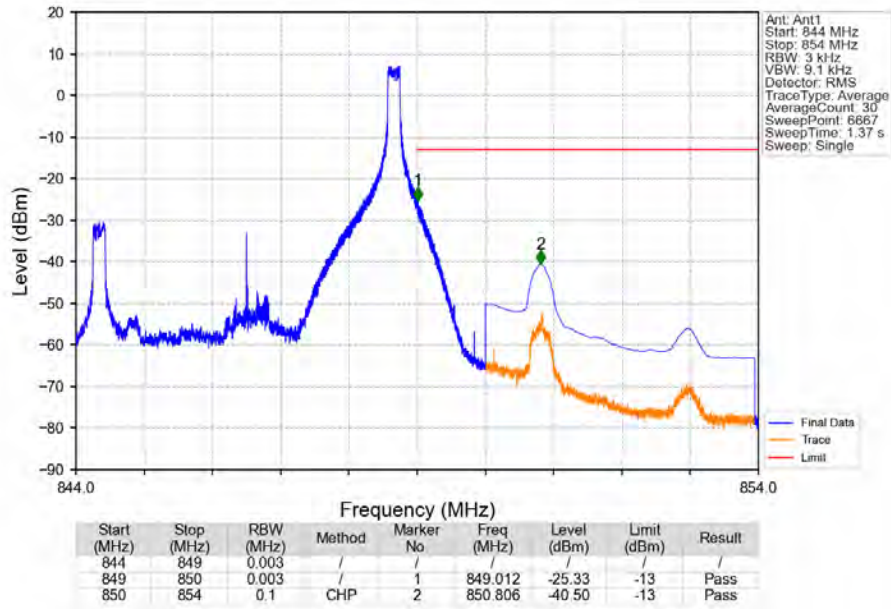
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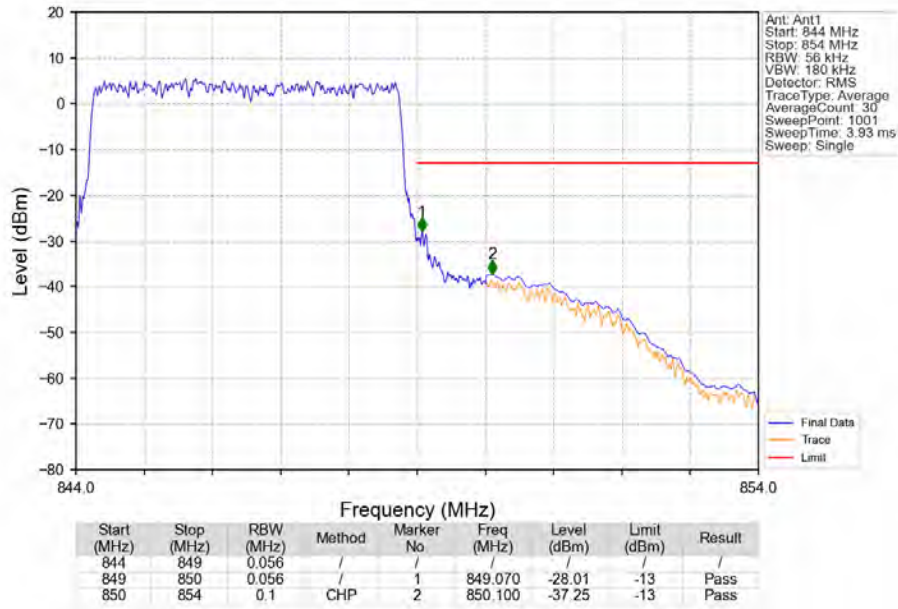
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Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_1\_0\_NTNV



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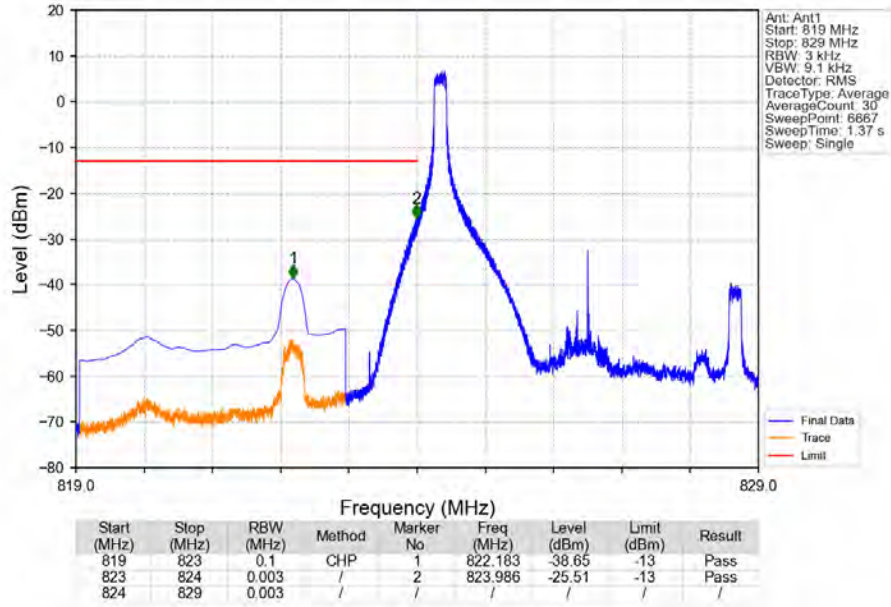
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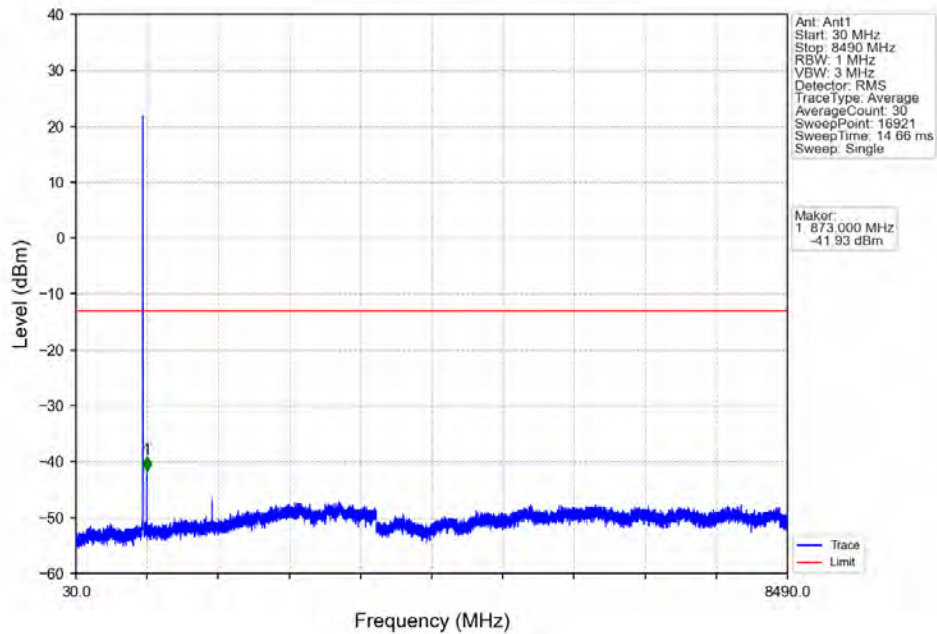
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Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_1\_0\_NTNV



Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



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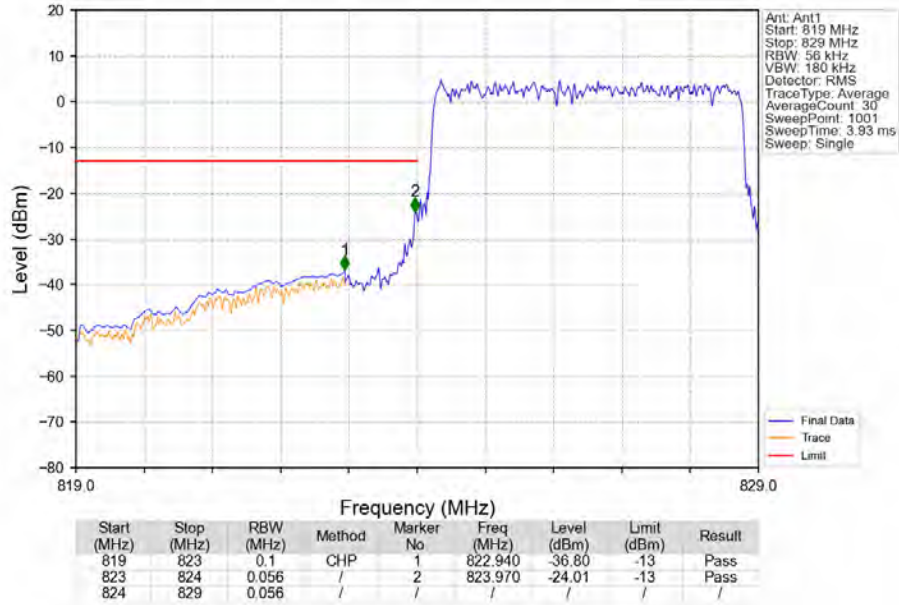
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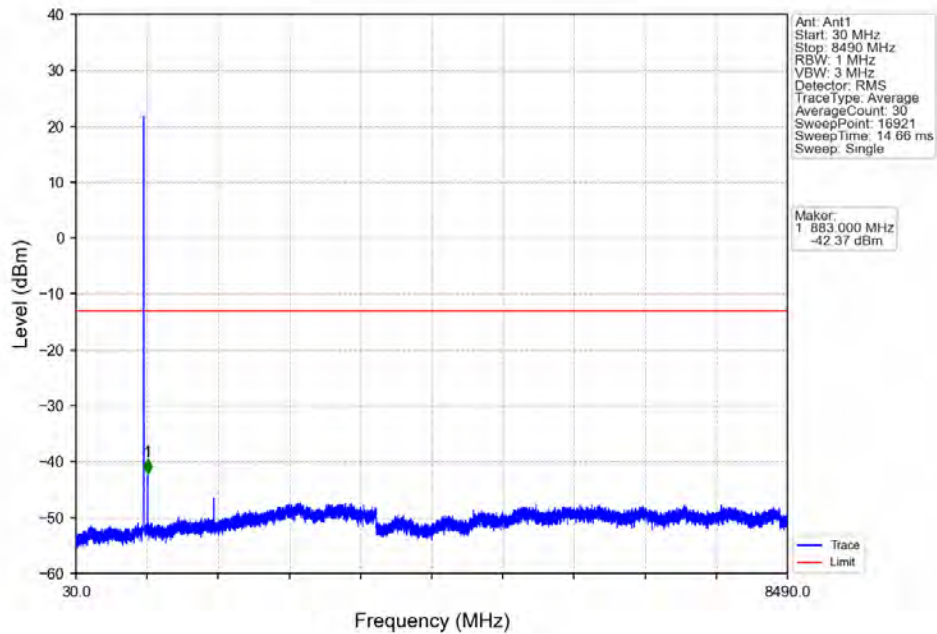
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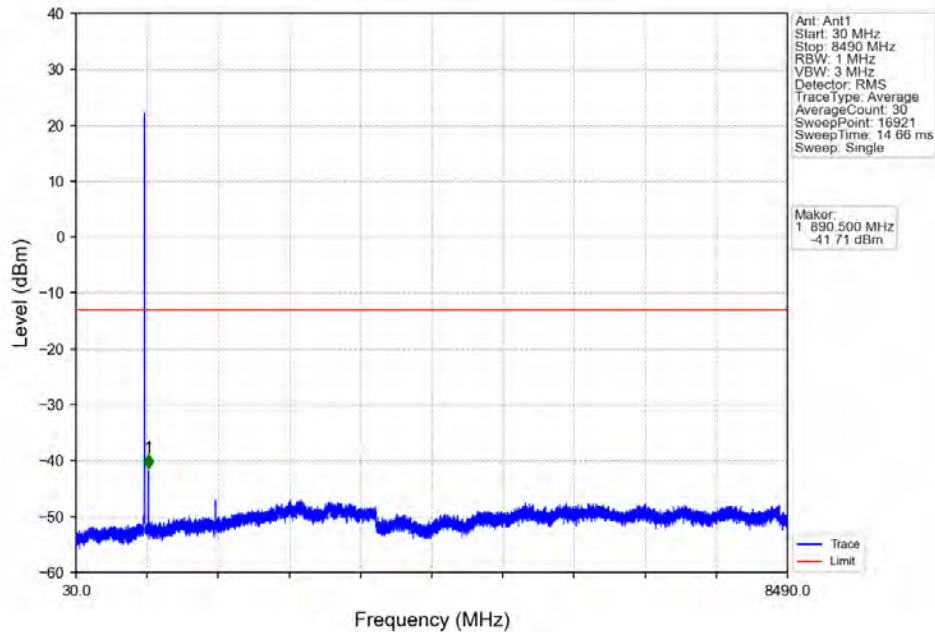
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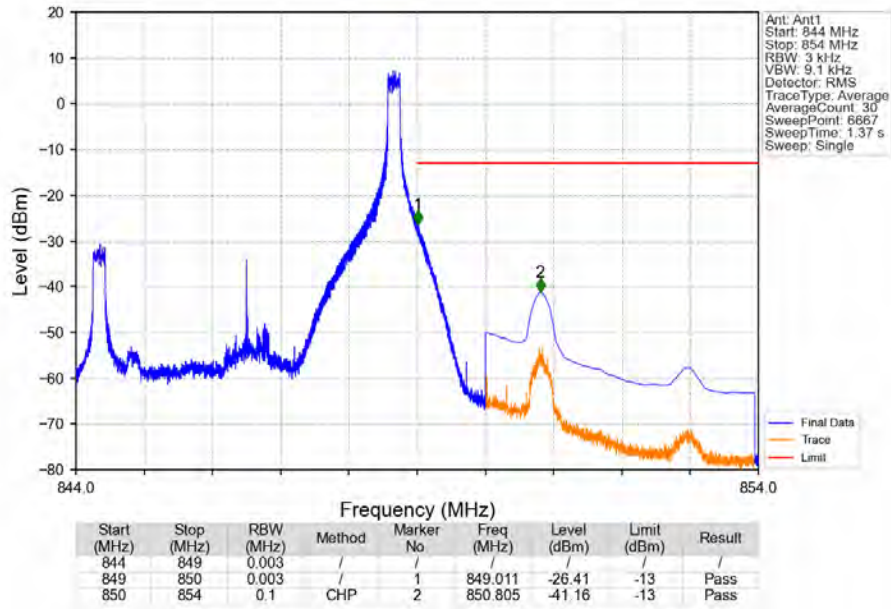
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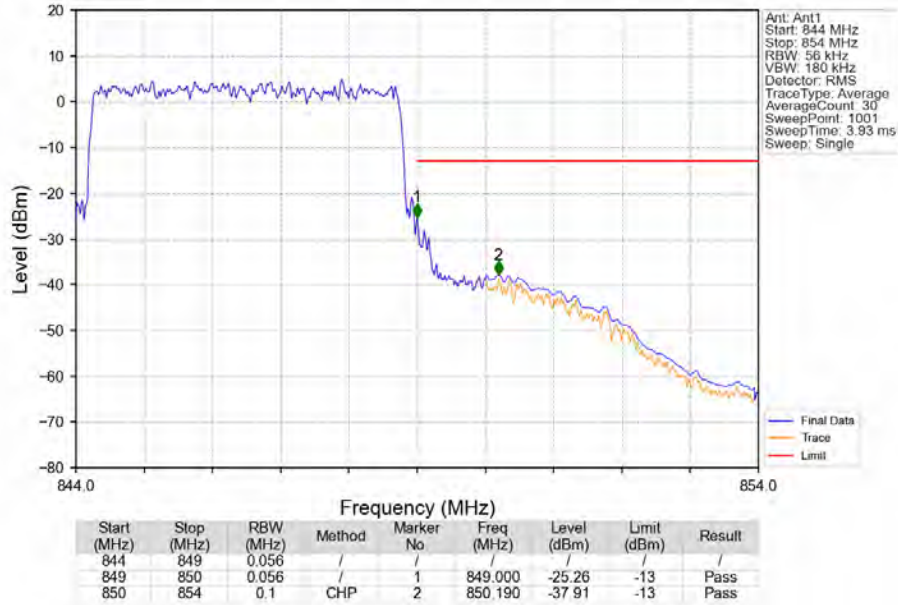
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## 5.4 B5\_10MHz

### 5.4.1 Test Result

| 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    |
|                                   |                 | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   | 844             | 1             | 49     | Refer To Test Graph |       | Pass    |
|                                   |                 | 50            | 0      | Refer To Test Graph |       | Pass    |
| 16QAM                             | 829             | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 | 50            | 0      | Refer To Test Graph |       | Pass    |
|                                   | 836.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   | 844             | 1             | 49     | Refer To Test Graph |       | Pass    |
|                                   |                 | 50            | 0      | Refer To Test Graph |       | Pass    |



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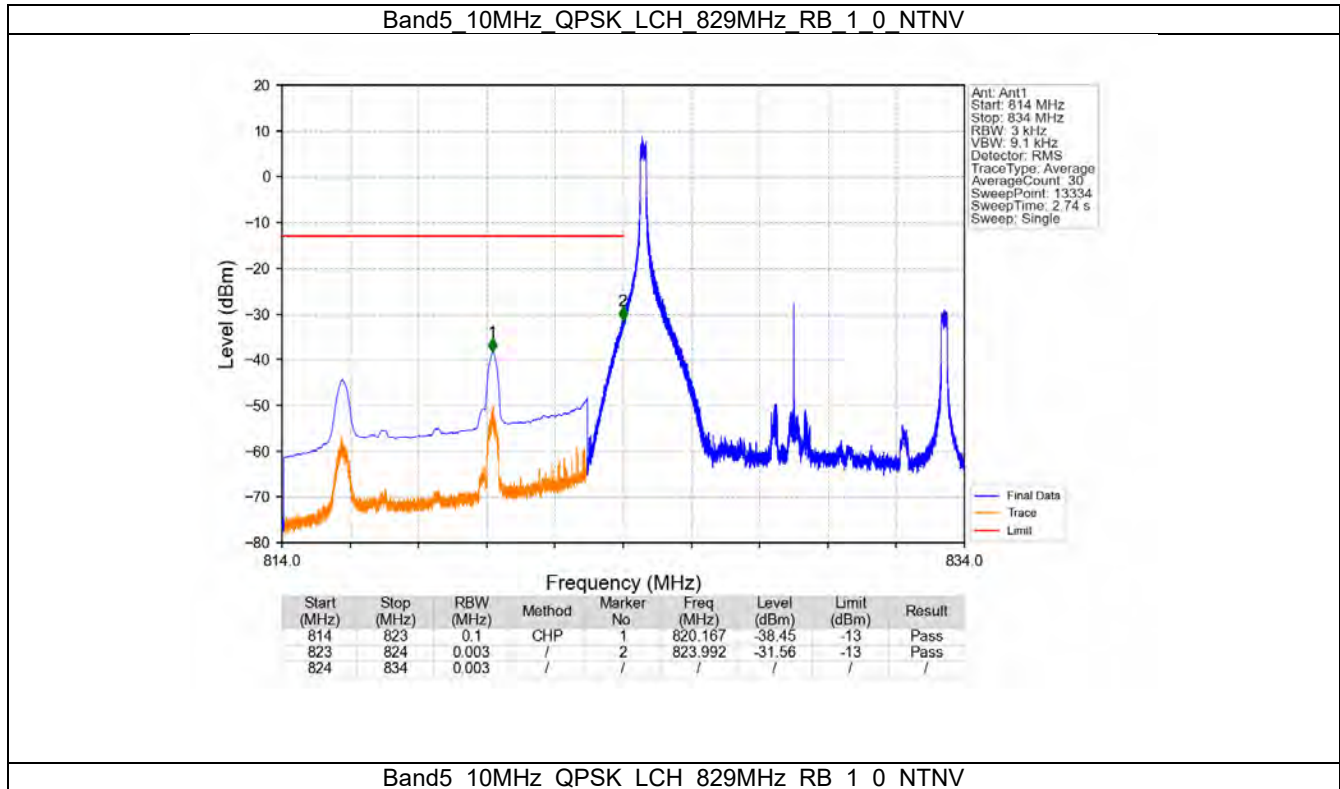


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### 5.4.2 Test Graph



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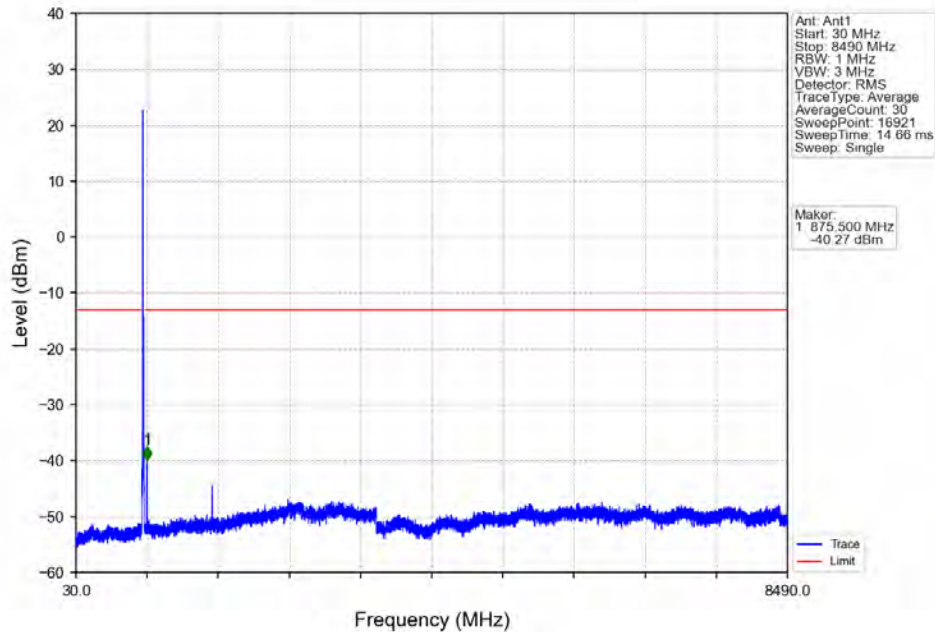
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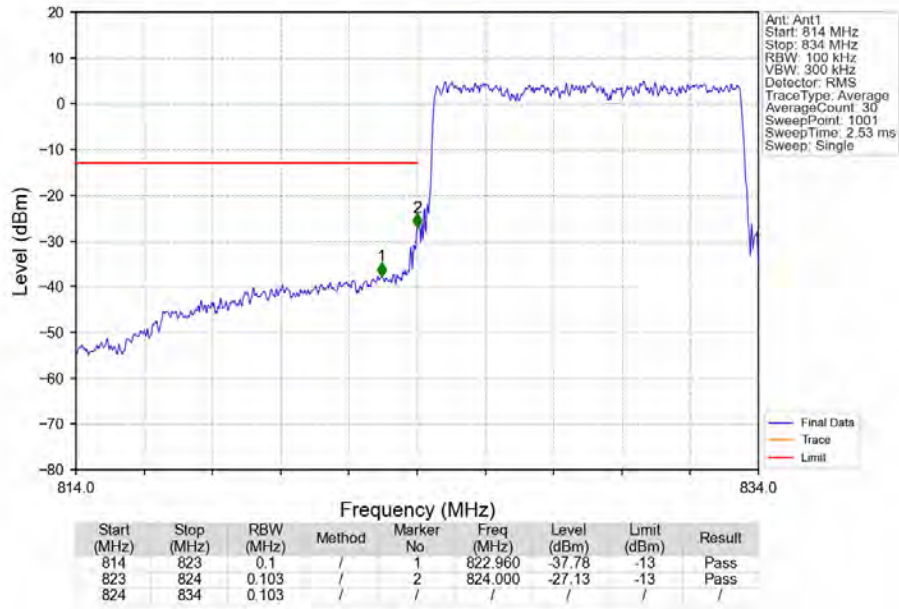
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Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



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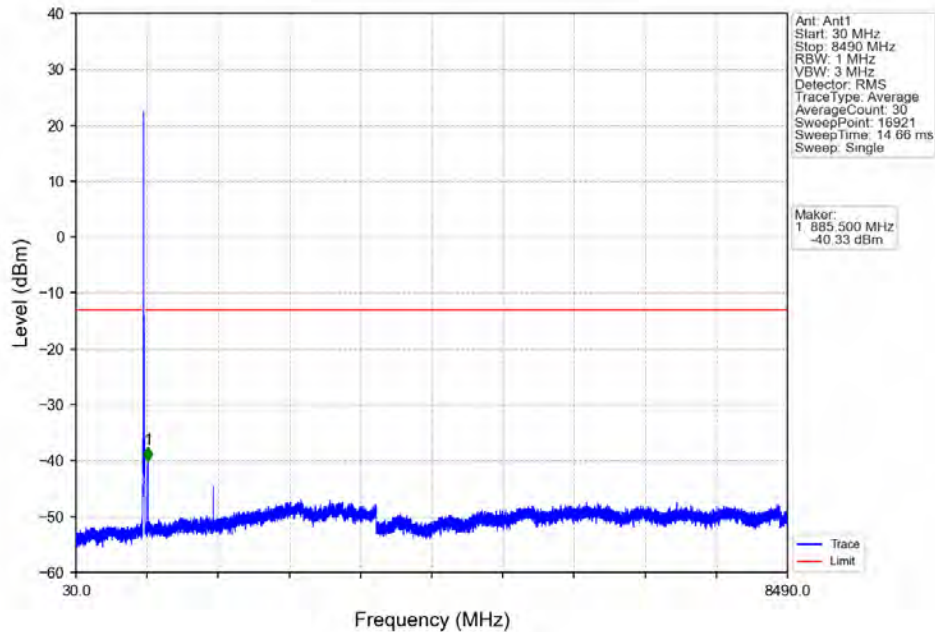
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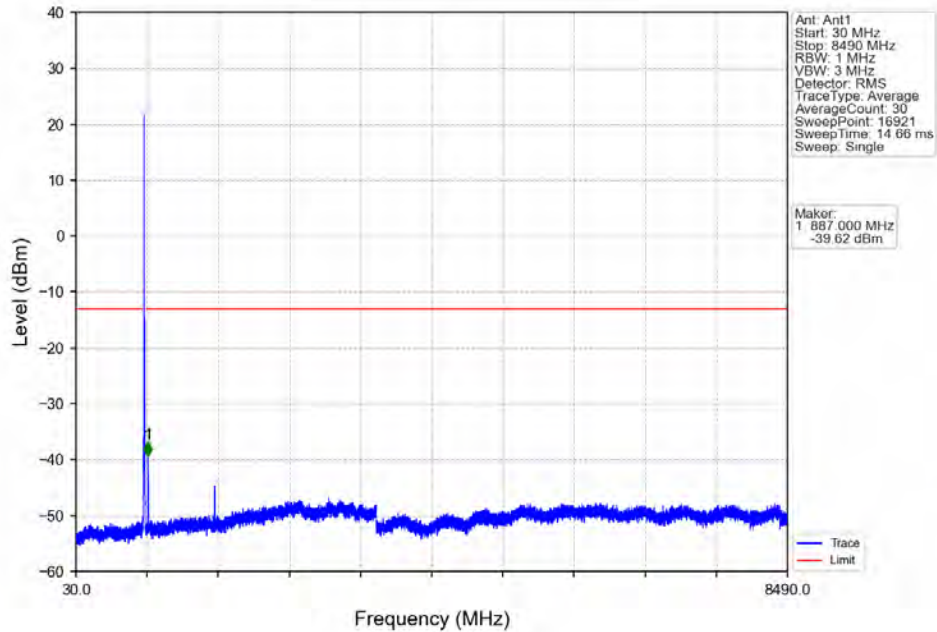


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Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_1\_0\_NTNV



Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_1\_49\_NTNV



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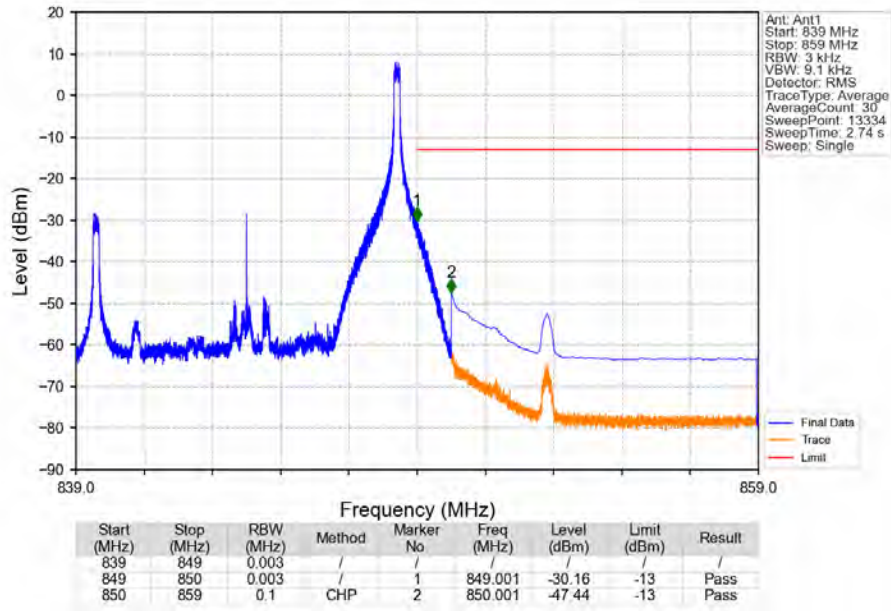
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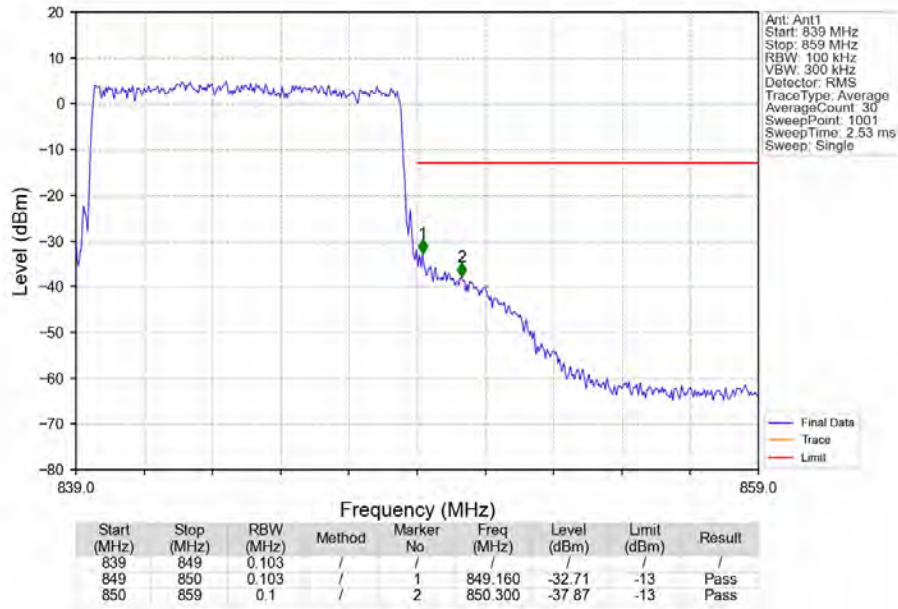
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Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_1\_0\_NTNV



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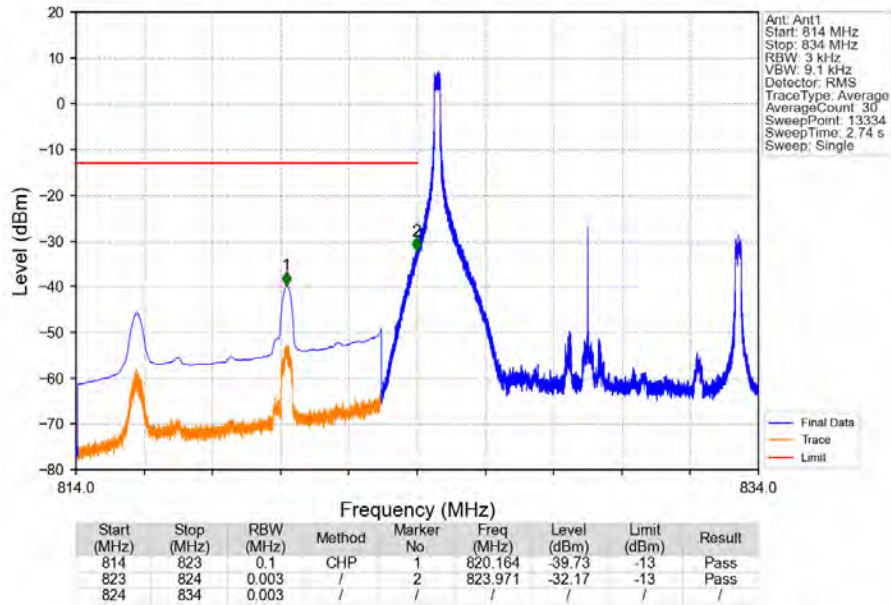
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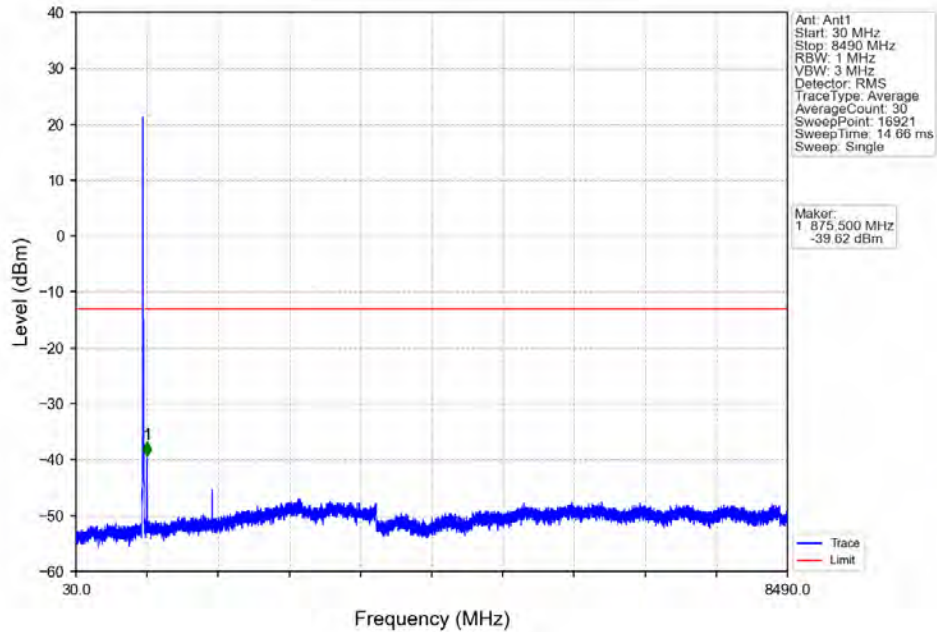


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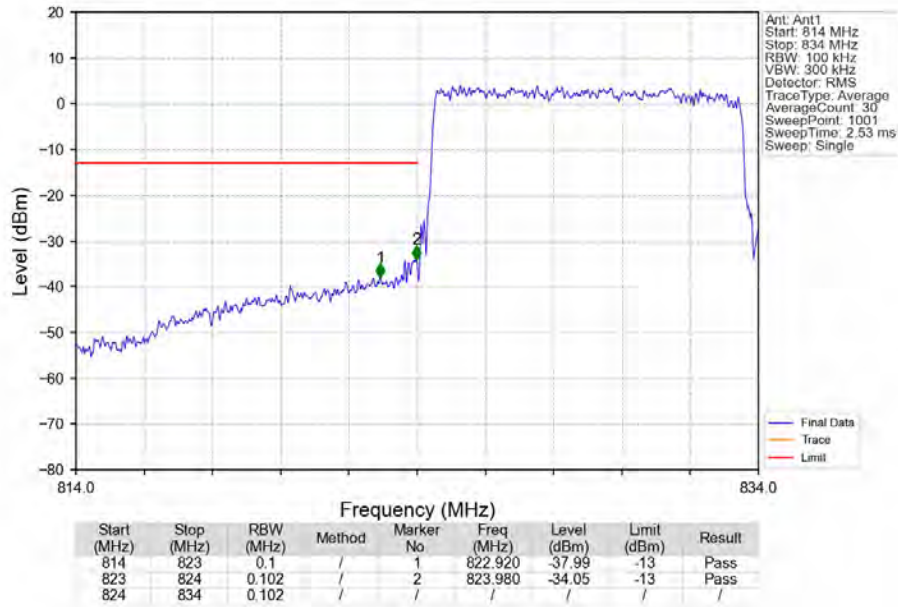
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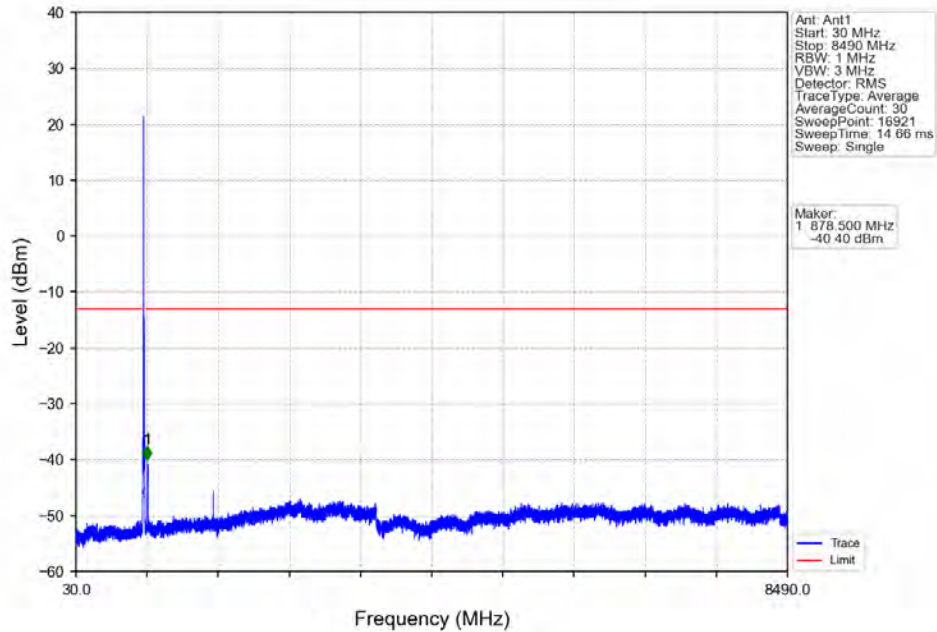
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Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_1\_0\_NTNV



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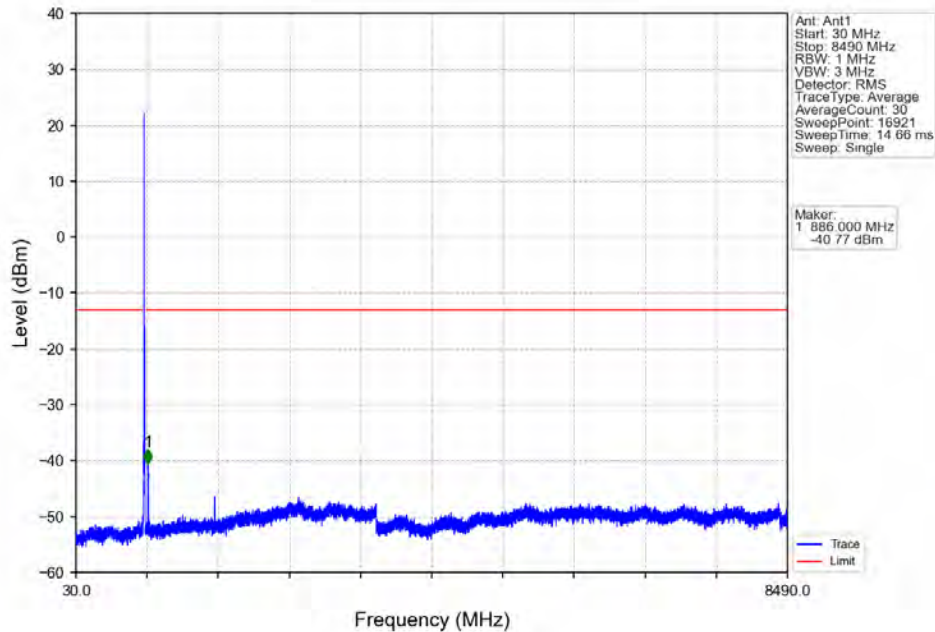
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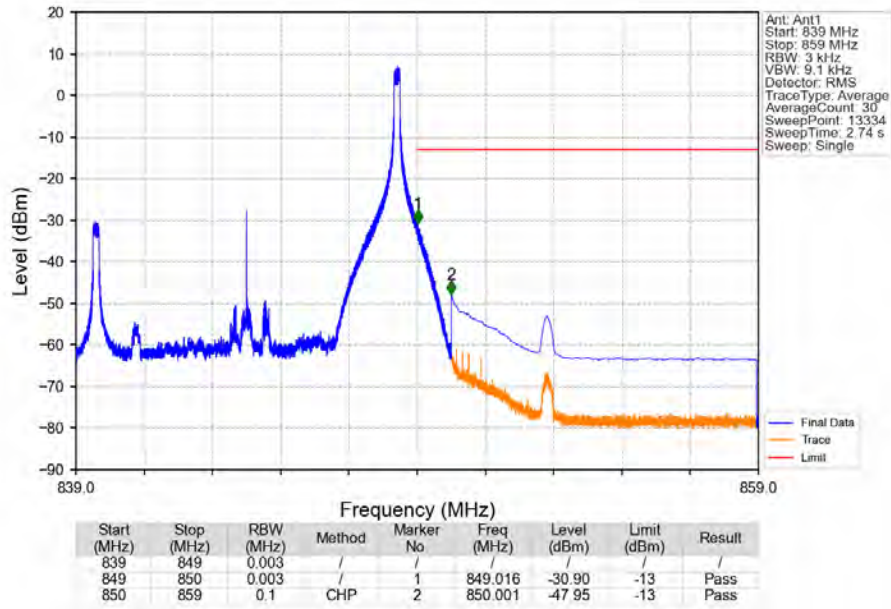


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Band5 10MHz 16QAM HCH 844MHz RB 1 49 NTNV



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



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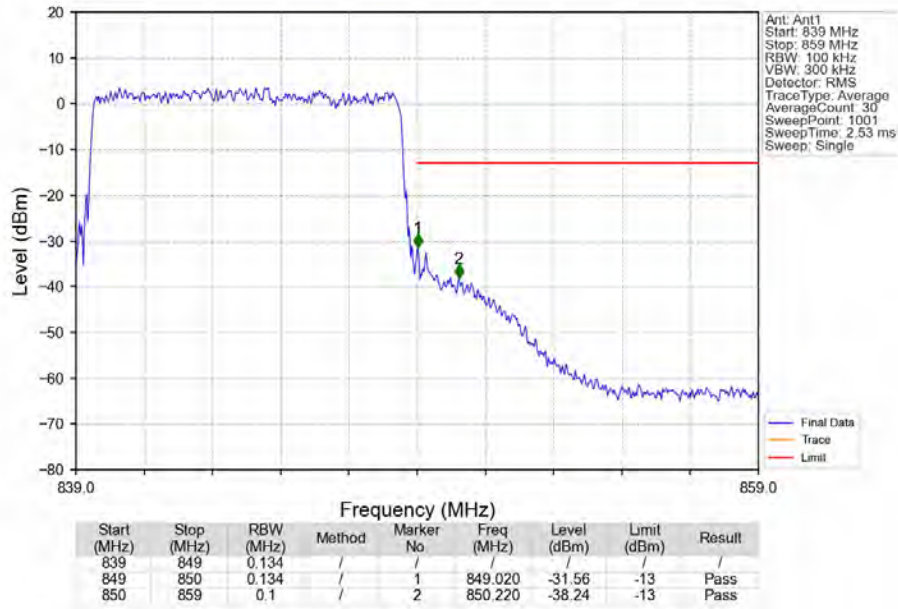
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## 6. Field Strength of Spurious Radiation

Test Band = LTE\_B5\_TM1

Test Channel = LCH

| Final Data List |             |                |             |          |             |             |             |            |
|-----------------|-------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 1242.5      | 47.68          | -47.89      | 24.52    | -70.95      | -13.00      | 57.95       | Horizontal |
| 2               | 1649        | 57.40          | -47.52      | 25.49    | -59.89      | -13.00      | 46.89       | Horizontal |
| 3               | 2473.5      | 67.14          | -46.67      | 27.69    | -47.10      | -13.00      | 34.10       | Horizontal |
| 4               | 5524.5      | 50.23          | -41.87      | 32.30    | -54.60      | -13.00      | 41.60       | Horizontal |
| 5               | 7885        | 41.54          | -37.54      | 36.59    | -54.67      | -13.00      | 41.67       | Horizontal |
| 6               | 9913.5      | 40.47          | -35.34      | 38.61    | -51.52      | -13.00      | 38.52       | Horizontal |

| Final Data List |             |                |             |          |             |             |             |          |
|-----------------|-------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 1649        | 60.71          | -47.52      | 25.49    | -56.58      | -13.00      | 43.58       | Vertical |
| 2               | 2473.5      | 63.58          | -46.67      | 27.69    | -50.66      | -13.00      | 37.66       | Vertical |
| 3               | 3907        | 45.63          | -44.38      | 29.73    | -64.28      | -13.00      | 51.28       | Vertical |
| 4               | 5524.5      | 49.19          | -41.87      | 32.30    | -55.64      | -13.00      | 42.64       | Vertical |
| 5               | 7906        | 41.65          | -37.47      | 36.49    | -54.59      | -13.00      | 41.59       | Vertical |
| 6               | 9989        | 40.65          | -35.64      | 38.69    | -51.56      | -13.00      | 38.56       | Vertical |



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**Test Band = LTE\_B5\_TM1**  
**Test Channel = MCH**

| Final Data List |             |                |             |          |             |             |             |            |
|-----------------|-------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 1254.5      | 47.49          | -47.88      | 24.51    | -71.14      | -13.00      | 58.14       | Horizontal |
| 2               | 1664        | 61.13          | -47.49      | 25.39    | -56.23      | -13.00      | 43.23       | Horizontal |
| 3               | 2496        | 71.25          | -46.69      | 27.78    | -42.92      | -13.00      | 29.92       | Horizontal |
| 4               | 4160.5      | 47.36          | -43.93      | 29.44    | -62.39      | -13.00      | 49.39       | Horizontal |
| 5               | 5524.5      | 49.78          | -41.87      | 32.30    | -55.05      | -13.00      | 42.05       | Horizontal |
| 6               | 7491        | 41.89          | -38.38      | 36.88    | -54.87      | -13.00      | 41.87       | Horizontal |

| Final Data List |             |                |             |          |             |             |             |          |
|-----------------|-------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 1664        | 62.78          | -47.49      | 25.39    | -54.58      | -13.00      | 41.58       | Vertical |
| 2               | 2496        | 69.85          | -46.69      | 27.78    | -44.32      | -13.00      | 31.32       | Vertical |
| 3               | 4160.5      | 47.31          | -43.93      | 29.44    | -62.44      | -13.00      | 49.44       | Vertical |
| 4               | 5524.5      | 49.54          | -41.87      | 32.30    | -55.29      | -13.00      | 42.29       | Vertical |
| 5               | 7516        | 41.75          | -38.44      | 36.74    | -55.21      | -13.00      | 42.21       | Vertical |
| 6               | 9986        | 40.69          | -35.63      | 38.69    | -51.51      | -13.00      | 38.51       | Vertical |



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**Test Band = LTE\_B5\_TM1**  
**Test Channel = HCH**

| Final Data List |             |                |             |          |             |             |             |            |
|-----------------|-------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 1679        | 59.95          | -47.47      | 25.27    | -57.51      | -13.00      | 44.51       | Horizontal |
| 2               | 2518.5      | 68.75          | -46.59      | 27.80    | -45.30      | -13.00      | 32.30       | Horizontal |
| 3               | 4039.5      | 45.94          | -44.01      | 29.64    | -63.69      | -13.00      | 50.69       | Horizontal |
| 4               | 5524.5      | 49.55          | -41.87      | 32.30    | -55.28      | -13.00      | 42.28       | Horizontal |
| 5               | 7896        | 42.21          | -37.49      | 36.52    | -54.02      | -13.00      | 41.02       | Horizontal |
| 6               | 9904.5      | 40.15          | -35.31      | 38.60    | -51.82      | -13.00      | 38.82       | Horizontal |

| Final Data List |             |                |             |          |             |             |             |          |
|-----------------|-------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 1679        | 62.63          | -47.47      | 25.27    | -54.83      | -13.00      | 41.83       | Vertical |
| 2               | 2519        | 67.30          | -46.59      | 27.80    | -46.75      | -13.00      | 33.75       | Vertical |
| 3               | 3746.5      | 45.96          | -44.81      | 29.58    | -64.53      | -13.00      | 51.53       | Vertical |
| 4               | 5524.5      | 49.28          | -41.87      | 32.30    | -55.55      | -13.00      | 42.55       | Vertical |
| 5               | 8301        | 40.78          | -37.06      | 36.40    | -55.14      | -13.00      | 42.14       | Vertical |
| 6               | 9967        | 40.34          | -35.55      | 38.67    | -51.80      | -13.00      | 38.80       | Vertical |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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