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# Appendix B.11

## LTE Band 17



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B17\_5MHz\_ERP

1.1.1 Test Result

| Band: 17 / Bandwidth: 5MHz / NTNV |                 |               |        |                       |            |           |         |         |         |      |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|---------|------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |         |      |
|                                   |                 | Size          | Offset |                       |            | Result    | Limit   |         |         |      |
| QPSK                              | 706.5           | 1             | 0      | 23.51                 | -3.05      | 18.31     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 13     | 23.55                 | -3.05      | 18.35     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 24     | 23.51                 | -3.05      | 18.31     | <=34.77 | Pass    |         |      |
|                                   |                 | 12            | 0      | 22.36                 | -3.05      | 17.16     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 6      | 22.43                 | -3.05      | 17.23     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 13     | 22.45                 | -3.05      | 17.25     | <=34.77 | Pass    |         |      |
|                                   |                 | 25            | 0      | 22.50                 | -3.05      | 17.3      | <=34.77 | Pass    |         |      |
|                                   |                 | 710           | 1      | 0                     | 23.44      | -3.05     | 18.24   | <=34.77 | Pass    |      |
|                                   |                 |               |        | 13                    | 23.48      | -3.05     | 18.28   | <=34.77 | Pass    |      |
|                                   | 24              |               |        | 23.46                 | -3.05      | 18.26     | <=34.77 | Pass    |         |      |
|                                   | 12              |               | 0      | 22.48                 | -3.05      | 17.28     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 6      | 22.44                 | -3.05      | 17.24     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 13     | 22.33                 | -3.05      | 17.13     | <=34.77 | Pass    |         |      |
|                                   | 25              |               | 0      | 22.47                 | -3.05      | 17.27     | <=34.77 | Pass    |         |      |
|                                   | 713.5           |               | 1      | 0                     | 23.50      | -3.05     | 18.3    | <=34.77 | Pass    |      |
|                                   |                 |               |        | 13                    | 23.44      | -3.05     | 18.24   | <=34.77 | Pass    |      |
|                                   |                 | 24            |        | 23.45                 | -3.05      | 18.25     | <=34.77 | Pass    |         |      |
|                                   |                 | 12            | 0      | 22.44                 | -3.05      | 17.24     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 6      | 22.37                 | -3.05      | 17.17     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 13     | 22.46                 | -3.05      | 17.26     | <=34.77 | Pass    |         |      |
|                                   |                 | 25            | 0      | 22.53                 | -3.05      | 17.33     | <=34.77 | Pass    |         |      |
|                                   |                 | 16QAM         | 706.5  | 1                     | 0          | 22.39     | -3.05   | 17.19   | <=34.77 | Pass |
|                                   |                 |               |        |                       | 13         | 22.33     | -3.05   | 17.13   | <=34.77 | Pass |
|                                   | 24              |               |        |                       | 22.30      | -3.05     | 17.1    | <=34.77 | Pass    |      |
| 12                                | 0               |               |        | 21.39                 | -3.05      | 16.19     | <=34.77 | Pass    |         |      |
|                                   | 6               |               |        | 21.49                 | -3.05      | 16.29     | <=34.77 | Pass    |         |      |
|                                   | 13              |               |        | 21.54                 | -3.05      | 16.34     | <=34.77 | Pass    |         |      |
| 25                                | 0               |               |        | 21.48                 | -3.05      | 16.28     | <=34.77 | Pass    |         |      |
| 710                               | 1               |               |        | 0                     | 22.68      | -3.05     | 17.48   | <=34.77 | Pass    |      |
|                                   |                 |               |        | 13                    | 22.72      | -3.05     | 17.52   | <=34.77 | Pass    |      |
|                                   |                 |               | 24     | 22.72                 | -3.05      | 17.52     | <=34.77 | Pass    |         |      |
|                                   | 12              |               | 0      | 21.54                 | -3.05      | 16.34     | <=34.77 | Pass    |         |      |
|                                   |                 |               | 6      | 21.50                 | -3.05      | 16.3      | <=34.77 | Pass    |         |      |
|                                   |                 |               | 13     | 21.38                 | -3.05      | 16.18     | <=34.77 | Pass    |         |      |
|                                   | 25              |               | 0      | 21.46                 | -3.05      | 16.26     | <=34.77 | Pass    |         |      |
|                                   | 713.5           |               | 1      | 0                     | 22.60      | -3.05     | 17.4    | <=34.77 | Pass    |      |
|                                   |                 |               |        | 13                    | 22.58      | -3.05     | 17.38   | <=34.77 | Pass    |      |
| 24                                |                 |               |        | 22.51                 | -3.05      | 17.31     | <=34.77 | Pass    |         |      |
| 12                                |                 |               | 0      | 21.50                 | -3.05      | 16.3      | <=34.77 | Pass    |         |      |



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|       |       |     |    |       |       |       |         |         |      |
|-------|-------|-----|----|-------|-------|-------|---------|---------|------|
|       |       |     | 6  | 21.39 | -3.05 | 16.19 | <=34.77 | Pass    |      |
|       |       |     | 13 | 21.44 | -3.05 | 16.24 | <=34.77 | Pass    |      |
|       |       | 25  | 0  | 21.52 | -3.05 | 16.32 | <=34.77 | Pass    |      |
| 64QAM | 706.5 | 1   | 0  | 21.49 | -3.05 | 16.29 | <=34.77 | Pass    |      |
|       |       |     | 13 | 21.43 | -3.05 | 16.23 | <=34.77 | Pass    |      |
|       |       |     | 24 | 21.41 | -3.05 | 16.21 | <=34.77 | Pass    |      |
|       |       | 12  | 0  | 20.36 | -3.05 | 15.16 | <=34.77 | Pass    |      |
|       |       |     | 6  | 20.47 | -3.05 | 15.27 | <=34.77 | Pass    |      |
|       |       |     | 13 | 20.50 | -3.05 | 15.3  | <=34.77 | Pass    |      |
|       |       | 25  | 0  | 20.48 | -3.05 | 15.28 | <=34.77 | Pass    |      |
|       |       | 710 | 1  | 0     | 21.58 | -3.05 | 16.38   | <=34.77 | Pass |
|       |       |     |    | 13    | 21.62 | -3.05 | 16.42   | <=34.77 | Pass |
|       | 24    |     |    | 21.62 | -3.05 | 16.42 | <=34.77 | Pass    |      |
|       | 12    |     | 0  | 20.51 | -3.05 | 15.31 | <=34.77 | Pass    |      |
|       |       |     | 6  | 20.49 | -3.05 | 15.29 | <=34.77 | Pass    |      |
|       |       |     | 13 | 20.40 | -3.05 | 15.2  | <=34.77 | Pass    |      |
|       | 25    |     | 0  | 20.52 | -3.05 | 15.32 | <=34.77 | Pass    |      |
|       | 713.5 |     | 1  | 0     | 21.66 | -3.05 | 16.46   | <=34.77 | Pass |
|       |       |     |    | 13    | 21.58 | -3.05 | 16.38   | <=34.77 | Pass |
|       |       | 24  |    | 21.65 | -3.05 | 16.45 | <=34.77 | Pass    |      |
|       |       | 12  | 0  | 20.67 | -3.05 | 15.47 | <=34.77 | Pass    |      |
|       |       |     | 6  | 20.54 | -3.05 | 15.34 | <=34.77 | Pass    |      |
|       |       |     | 13 | 20.56 | -3.05 | 15.36 | <=34.77 | Pass    |      |
|       |       | 25  | 0  | 20.50 | -3.05 | 15.3  | <=34.77 | Pass    |      |

Note1: ERP=Conducted Power+Antenna Gain-2.15



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1.2 B17\_10MHz\_ERP

1.2.1 Test Result

| Band: 17 / Bandwidth: 10MHz / NTNV |                 |               |        |                       |            |           |         |         |         |      |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|---------|------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |         |      |
|                                    |                 | Size          | Offset |                       |            | Result    | Limit   |         |         |      |
| QPSK                               | 709             | 1             | 0      | 23.48                 | -3.05      | 18.28     | <=34.77 | Pass    |         |      |
|                                    |                 |               | 25     | 23.50                 | -3.05      | 18.3      | <=34.77 | Pass    |         |      |
|                                    |                 |               | 49     | 23.37                 | -3.05      | 18.17     | <=34.77 | Pass    |         |      |
|                                    |                 | 25            | 0      | 22.30                 | -3.05      | 17.1      | <=34.77 | Pass    |         |      |
|                                    |                 |               | 13     | 22.47                 | -3.05      | 17.27     | <=34.77 | Pass    |         |      |
|                                    |                 |               | 25     | 22.34                 | -3.05      | 17.14     | <=34.77 | Pass    |         |      |
|                                    |                 | 50            | 0      | 22.32                 | -3.05      | 17.12     | <=34.77 | Pass    |         |      |
|                                    |                 | 710           | 1      | 0                     | 23.42      | -3.05     | 18.22   | <=34.77 | Pass    |      |
|                                    |                 |               |        | 25                    | 23.44      | -3.05     | 18.24   | <=34.77 | Pass    |      |
|                                    | 49              |               |        | 23.38                 | -3.05      | 18.18     | <=34.77 | Pass    |         |      |
|                                    | 25              |               | 0      | 22.35                 | -3.05      | 17.15     | <=34.77 | Pass    |         |      |
|                                    |                 |               | 13     | 22.48                 | -3.05      | 17.28     | <=34.77 | Pass    |         |      |
|                                    |                 |               | 25     | 22.34                 | -3.05      | 17.14     | <=34.77 | Pass    |         |      |
|                                    | 50              |               | 0      | 22.36                 | -3.05      | 17.16     | <=34.77 | Pass    |         |      |
|                                    | 711             |               | 1      | 0                     | 23.47      | -3.05     | 18.27   | <=34.77 | Pass    |      |
|                                    |                 |               |        | 25                    | 23.47      | -3.05     | 18.27   | <=34.77 | Pass    |      |
|                                    |                 | 49            |        | 23.41                 | -3.05      | 18.21     | <=34.77 | Pass    |         |      |
|                                    |                 | 25            | 0      | 22.52                 | -3.05      | 17.32     | <=34.77 | Pass    |         |      |
|                                    |                 |               | 13     | 22.47                 | -3.05      | 17.27     | <=34.77 | Pass    |         |      |
|                                    |                 |               | 25     | 22.35                 | -3.05      | 17.15     | <=34.77 | Pass    |         |      |
|                                    |                 | 50            | 0      | 22.44                 | -3.05      | 17.24     | <=34.77 | Pass    |         |      |
|                                    |                 | 16QAM         | 709    | 1                     | 0          | 23.09     | -3.05   | 17.89   | <=34.77 | Pass |
|                                    |                 |               |        |                       | 25         | 22.98     | -3.05   | 17.78   | <=34.77 | Pass |
|                                    | 49              |               |        |                       | 23.02      | -3.05     | 17.82   | <=34.77 | Pass    |      |
| 25                                 | 0               |               |        | 21.39                 | -3.05      | 16.19     | <=34.77 | Pass    |         |      |
|                                    | 13              |               |        | 21.53                 | -3.05      | 16.33     | <=34.77 | Pass    |         |      |
|                                    | 25              |               |        | 21.37                 | -3.05      | 16.17     | <=34.77 | Pass    |         |      |
| 50                                 | 0               |               |        | 21.36                 | -3.05      | 16.16     | <=34.77 | Pass    |         |      |
| 710                                | 1               |               |        | 0                     | 22.66      | -3.05     | 17.46   | <=34.77 | Pass    |      |
|                                    |                 |               |        | 25                    | 22.68      | -3.05     | 17.48   | <=34.77 | Pass    |      |
|                                    |                 |               | 49     | 22.56                 | -3.05      | 17.36     | <=34.77 | Pass    |         |      |
|                                    | 25              |               | 0      | 21.39                 | -3.05      | 16.19     | <=34.77 | Pass    |         |      |
|                                    |                 |               | 13     | 21.46                 | -3.05      | 16.26     | <=34.77 | Pass    |         |      |
|                                    |                 |               | 25     | 21.33                 | -3.05      | 16.13     | <=34.77 | Pass    |         |      |
|                                    | 50              |               | 0      | 21.38                 | -3.05      | 16.18     | <=34.77 | Pass    |         |      |
|                                    | 711             |               | 1      | 0                     | 22.51      | -3.05     | 17.31   | <=34.77 | Pass    |      |
|                                    |                 |               |        | 25                    | 22.51      | -3.05     | 17.31   | <=34.77 | Pass    |      |
| 49                                 |                 |               |        | 22.48                 | -3.05      | 17.28     | <=34.77 | Pass    |         |      |
| 25                                 |                 |               | 0      | 21.60                 | -3.05      | 16.4      | <=34.77 | Pass    |         |      |
|                                    |                 |               | 13     | 21.58                 | -3.05      | 16.38     | <=34.77 | Pass    |         |      |
|                                    |                 |               | 25     | 21.48                 | -3.05      | 16.28     | <=34.77 | Pass    |         |      |



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|       |     |       |       |       |         |         |         |      |
|-------|-----|-------|-------|-------|---------|---------|---------|------|
|       |     | 50    | 0     | 21.45 | -3.05   | 16.25   | <=34.77 | Pass |
| 64QAM | 709 | 1     | 0     | 21.73 | -3.05   | 16.53   | <=34.77 | Pass |
|       |     |       | 25    | 21.74 | -3.05   | 16.54   | <=34.77 | Pass |
|       |     |       | 49    | 21.66 | -3.05   | 16.46   | <=34.77 | Pass |
|       |     |       | 50    | 20.35 | -3.05   | 15.15   | <=34.77 | Pass |
|       |     | 25    | 13    | 20.47 | -3.05   | 15.27   | <=34.77 | Pass |
|       |     |       | 25    | 20.34 | -3.05   | 15.14   | <=34.77 | Pass |
|       | 50  |       | 20.36 | -3.05 | 15.16   | <=34.77 | Pass    |      |
|       | 710 | 1     | 0     | 21.58 | -3.05   | 16.38   | <=34.77 | Pass |
|       |     |       | 25    | 21.58 | -3.05   | 16.38   | <=34.77 | Pass |
|       |     |       | 49    | 21.53 | -3.05   | 16.33   | <=34.77 | Pass |
|       |     | 25    | 0     | 20.47 | -3.05   | 15.27   | <=34.77 | Pass |
|       |     |       | 13    | 20.54 | -3.05   | 15.34   | <=34.77 | Pass |
|       |     |       | 25    | 20.35 | -3.05   | 15.15   | <=34.77 | Pass |
|       | 50  | 20.37 | -3.05 | 15.17 | <=34.77 | Pass    |         |      |
|       | 711 | 1     | 0     | 21.34 | -3.05   | 16.14   | <=34.77 | Pass |
|       |     |       | 25    | 21.40 | -3.05   | 16.2    | <=34.77 | Pass |
|       |     |       | 49    | 21.29 | -3.05   | 16.09   | <=34.77 | Pass |
|       |     | 25    | 0     | 20.57 | -3.05   | 15.37   | <=34.77 | Pass |
|       |     |       | 13    | 20.54 | -3.05   | 15.34   | <=34.77 | Pass |
|       |     |       | 25    | 20.44 | -3.05   | 15.24   | <=34.77 | Pass |
|       | 50  | 20.52 | -3.05 | 15.32 | <=34.77 | Pass    |         |      |

Note1: ERP=Conducted Power+Antenna Gain-2.15



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2. Frequency Stability

2.1 B17\_5MHz

2.1.1 Test Result

| Band: 17 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |         |         |         |      |      |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|---------|---------|---------|------|------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |         | Verdict |         |      |      |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit   |         |         |      |      |
| QPSK                       | 706.5           | 25            | 0      | 20         | 3.5           | 0.212            | 0.0003                | /       | Pass    |         |      |      |
|                            |                 |               |        |            | 3.87          | 3.795            | 0.0054                | /       | Pass    |         |      |      |
|                            |                 |               |        |            | 4.45          | 1.846            | 0.0026                | /       | Pass    |         |      |      |
|                            |                 |               |        | -30        | 3.87          | 2.150            | 0.0030                | /       | Pass    |         |      |      |
|                            |                 |               |        |            | -20           | 3.87             | 1.896                 | 0.0027  | /       | Pass    |      |      |
|                            |                 |               |        |            |               | -10              | 3.87                  | -0.286  | -0.0004 | /       | Pass |      |
|                            |                 |               |        | 0          | 3.87          | 1.478            | 0.0021                | /       | Pass    |         |      |      |
|                            |                 |               |        | 10         | 3.87          | 1.895            | 0.0027                | /       | Pass    |         |      |      |
|                            |                 |               |        | 30         | 3.87          | 0.828            | 0.0012                | /       | Pass    |         |      |      |
|                            |                 |               |        | 40         | 3.87          | -1.820           | -0.0026               | /       | Pass    |         |      |      |
|                            |                 |               |        | 50         | 3.87          | 2.168            | 0.0031                | /       | Pass    |         |      |      |
|                            |                 |               |        | 710        | 25            | 0                | 20                    | 3.5     | -1.324  | -0.0019 | /    | Pass |
|                            |                 |               |        |            |               |                  |                       | 3.87    | -1.543  | -0.0022 | /    | Pass |
|                            |                 |               |        |            |               |                  |                       | 4.45    | 2.138   | 0.0030  | /    | Pass |
|                            |                 |               |        |            |               |                  | -30                   | 3.87    | 3.164   | 0.0045  | /    | Pass |
|                            | -20             | 3.87          | -0.209 |            |               |                  |                       | -0.0003 | /       | Pass    |      |      |
|                            |                 | -10           | 3.87   |            |               |                  |                       | -1.068  | -0.0015 | /       | Pass |      |
|                            | 0               | 3.87          | 0.852  |            |               |                  | 0.0012                | /       | Pass    |         |      |      |
|                            | 10              | 3.87          | -1.406 |            |               |                  | -0.0020               | /       | Pass    |         |      |      |
|                            | 30              | 3.87          | -0.989 |            |               |                  | -0.0014               | /       | Pass    |         |      |      |
|                            | 40              | 3.87          | -1.283 |            |               |                  | -0.0018               | /       | Pass    |         |      |      |
|                            | 50              | 3.87          | -0.841 |            |               |                  | -0.0012               | /       | Pass    |         |      |      |
|                            | 713.5           | 25            | 0      |            |               |                  | 20                    | 3.5     | -0.148  | -0.0002 | /    | Pass |
|                            |                 |               |        |            |               |                  |                       | 3.87    | -0.775  | -0.0011 | /    | Pass |
|                            |                 |               |        |            |               |                  |                       | 4.45    | -3.016  | -0.0042 | /    | Pass |
|                            |                 |               |        |            |               |                  | -30                   | 3.87    | -2.196  | -0.0031 | /    | Pass |
|                            |                 |               |        | -20        | 3.87          | -1.204           |                       | -0.0017 | /       | Pass    |      |      |
|                            |                 |               |        |            | -10           | 3.87             |                       | -0.677  | -0.0009 | /       | Pass |      |
|                            |                 |               |        | 0          | 3.87          | -1.633           | -0.0023               | /       | Pass    |         |      |      |
|                            |                 |               |        | 10         | 3.87          | -0.129           | -0.0002               | /       | Pass    |         |      |      |
| 30                         |                 |               |        | 3.87       | -1.970        | -0.0028          | /                     | Pass    |         |         |      |      |
| 40                         |                 |               |        | 3.87       | -1.079        | -0.0015          | /                     | Pass    |         |         |      |      |
| 50                         |                 |               |        | 3.87       | 1.102         | 0.0015           | /                     | Pass    |         |         |      |      |
| 16QAM                      |                 |               |        | 706.5      | 25            | 0                | 20                    | 3.5     | 1.124   | 0.0016  | /    | Pass |
|                            |                 |               |        |            |               |                  |                       | 3.87    | 2.054   | 0.0029  | /    | Pass |
|                            |                 |               |        |            |               |                  |                       | 4.45    | -0.126  | -0.0002 | /    | Pass |
|                            |                 |               |        |            |               |                  | -30                   | 3.87    | 0.451   | 0.0006  | /    | Pass |
|                            | -20             | 3.87          | -1.178 |            |               |                  |                       | -0.0017 | /       | Pass    |      |      |
|                            |                 | -10           | 3.87   |            |               |                  |                       | 1.867   | 0.0026  | /       | Pass |      |



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|       |       |        |         |       |        |         |         |        |         |         |      |      |
|-------|-------|--------|---------|-------|--------|---------|---------|--------|---------|---------|------|------|
| 64QAM | 710   | 25     | 0       | 0     | 3.87   | -1.611  | -0.0023 | /      | Pass    |         |      |      |
|       |       |        |         | 10    | 3.87   | -0.837  | -0.0012 | /      | Pass    |         |      |      |
|       |       |        |         | 30    | 3.87   | -1.016  | -0.0014 | /      | Pass    |         |      |      |
|       |       |        |         | 40    | 3.87   | -0.148  | -0.0002 | /      | Pass    |         |      |      |
|       |       |        |         | 50    | 3.87   | 0.736   | 0.0010  | /      | Pass    |         |      |      |
|       | 713.5 | 25     | 0       | 20    | 3.5    | -0.848  | -0.0012 | /      | Pass    |         |      |      |
|       |       |        |         |       | 3.87   | -1.526  | -0.0021 | /      | Pass    |         |      |      |
|       |       |        |         |       | 4.45   | -0.055  | -0.0001 | /      | Pass    |         |      |      |
|       |       |        |         | -30   | 3.87   | -2.188  | -0.0031 | /      | Pass    |         |      |      |
|       |       |        |         | -20   | 3.87   | -0.968  | -0.0014 | /      | Pass    |         |      |      |
|       |       |        |         | -10   | 3.87   | 1.520   | 0.0021  | /      | Pass    |         |      |      |
|       |       |        |         | 0     | 3.87   | -1.713  | -0.0024 | /      | Pass    |         |      |      |
|       |       |        |         | 10    | 3.87   | 0.210   | 0.0003  | /      | Pass    |         |      |      |
|       |       |        |         | 30    | 3.87   | -3.156  | -0.0044 | /      | Pass    |         |      |      |
|       |       |        |         | 40    | 3.87   | -1.911  | -0.0027 | /      | Pass    |         |      |      |
|       |       |        |         | 50    | 3.87   | -0.793  | -0.0011 | /      | Pass    |         |      |      |
|       |       |        |         | 706.5 | 25     | 0       | 20      | 3.5    | -2.359  | -0.0033 | /    | Pass |
|       |       |        |         |       |        |         |         | 3.87   | 2.107   | 0.0030  | /    | Pass |
|       |       |        |         |       |        |         |         | 4.45   | -0.347  | -0.0005 | /    | Pass |
|       |       |        |         |       |        |         | -30     | 3.87   | -0.500  | -0.0007 | /    | Pass |
|       | -20   | 3.87   | 3.049   |       |        |         | 0.0043  | /      | Pass    |         |      |      |
|       | -10   | 3.87   | 3.868   |       |        |         | 0.0054  | /      | Pass    |         |      |      |
|       | 0     | 3.87   | 2.337   |       |        |         | 0.0033  | /      | Pass    |         |      |      |
|       | 10    | 3.87   | -0.113  |       |        |         | -0.0002 | /      | Pass    |         |      |      |
|       | 30    | 3.87   | 0.993   |       |        |         | 0.0014  | /      | Pass    |         |      |      |
|       | 40    | 3.87   | -0.284  |       |        |         | -0.0004 | /      | Pass    |         |      |      |
|       | 50    | 3.87   | 1.668   |       |        |         | 0.0023  | /      | Pass    |         |      |      |
|       | 710   | 25     | 0       |       |        |         | 20      | 3.5    | 2.180   | 0.0031  | /    | Pass |
|       |       |        |         | 3.87  | 1.391  | 0.0020  |         | /      | Pass    |         |      |      |
|       |       |        |         | 4.45  | -0.739 | -0.0010 |         | /      | Pass    |         |      |      |
|       |       |        |         | -30   | 3.87   | 2.723   | 0.0039  | /      | Pass    |         |      |      |
|       |       |        |         | -20   | 3.87   | 2.029   | 0.0029  | /      | Pass    |         |      |      |
|       |       |        |         | -10   | 3.87   | -0.246  | -0.0003 | /      | Pass    |         |      |      |
|       |       |        |         | 0     | 3.87   | 3.689   | 0.0052  | /      | Pass    |         |      |      |
|       |       |        |         | 10    | 3.87   | -0.125  | -0.0002 | /      | Pass    |         |      |      |
| 30    |       |        |         | 3.87  | 0.896  | 0.0013  | /       | Pass   |         |         |      |      |
| 40    |       |        |         | 3.87  | 2.337  | 0.0033  | /       | Pass   |         |         |      |      |
| 50    |       |        |         | 3.87  | -1.377 | -0.0019 | /       | Pass   |         |         |      |      |
| 710   |       |        |         | 25    | 0      | 20      | 3.5     | 0.580  | 0.0008  | /       | Pass |      |
|       |       |        |         |       |        |         | 3.87    | -2.571 | -0.0036 | /       | Pass |      |
|       |       |        |         |       |        |         | 4.45    | -0.866 | -0.0012 | /       | Pass |      |
|       |       |        |         |       |        | -30     | 3.87    | -0.400 | -0.0006 | /       | Pass |      |
|       |       |        |         |       |        | -20     | 3.87    | -0.042 | -0.0001 | /       | Pass |      |
|       |       |        |         |       |        | -10     | 3.87    | 0.755  | 0.0011  | /       | Pass |      |
|       |       |        |         |       |        | 0       | 3.87    | -0.150 | -0.0002 | /       | Pass |      |
|       | 10    | 3.87   | 2.015   |       |        | 0.0028  | /       | Pass   |         |         |      |      |
|       | 30    | 3.87   | 1.218   |       |        | 0.0017  | /       | Pass   |         |         |      |      |
| 40    | 3.87  | -0.999 | -0.0014 | /     | Pass   |         |         |        |         |         |      |      |
| 50    | 3.87  | 1.326  | 0.0019  | /     | Pass   |         |         |        |         |         |      |      |



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|    |       |       |        |     |      |        |         |   |      |
|----|-------|-------|--------|-----|------|--------|---------|---|------|
|    | 713.5 | 25    | 0      | 20  | 3.5  | 1.613  | 0.0023  | / | Pass |
|    |       |       |        |     | 3.87 | 0.224  | 0.0003  | / | Pass |
|    |       |       |        |     | 4.45 | -0.248 | -0.0003 | / | Pass |
|    |       |       |        | -30 | 3.87 | 0.974  | 0.0014  | / | Pass |
|    |       |       |        | -20 | 3.87 | 0.227  | 0.0003  | / | Pass |
|    |       |       |        | -10 | 3.87 | 0.844  | 0.0012  | / | Pass |
|    |       |       |        | 0   | 3.87 | 1.287  | 0.0018  | / | Pass |
|    |       |       |        | 10  | 3.87 | 2.080  | 0.0029  | / | Pass |
|    |       |       |        | 30  | 3.87 | 1.122  | 0.0016  | / | Pass |
|    |       |       |        | 40  | 3.87 | -1.771 | -0.0025 | / | Pass |
| 50 | 3.87  | 1.911 | 0.0027 | /   | Pass |        |         |   |      |



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2.2 B17\_10MHz

2.2.1 Test Result

| Band: 17 / Bandwidth: 10MHz |                 |               |         |            |               |                  |                       |         |         |      |
|-----------------------------|-----------------|---------------|---------|------------|---------------|------------------|-----------------------|---------|---------|------|
| Modulation                  | Frequency (MHz) | RB Allocation |         | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |         | Verdict |      |
|                             |                 | Size          | Offset  |            |               |                  | Result                | Limit   |         |      |
| QPSK                        | 709             | 50            | 0       | 20         | 3.5           | 0.349            | 0.0005                | /       | Pass    |      |
|                             |                 |               |         |            | 3.87          | 1.586            | 0.0022                | /       | Pass    |      |
|                             |                 |               |         |            | 4.45          | 2.257            | 0.0032                | /       | Pass    |      |
|                             |                 |               |         | -30        | 3.87          | -0.577           | -0.0008               | /       | Pass    |      |
|                             |                 |               |         |            | -20           | 3.87             | 0.457                 | 0.0006  | /       | Pass |
|                             |                 |               |         |            |               | -10              | 3.87                  | 0.468   | 0.0007  | /    |
|                             |                 |               |         | 0          | 3.87          | 2.453            | 0.0035                | /       | Pass    |      |
|                             |                 |               |         | 10         | 3.87          | -1.290           | -0.0018               | /       | Pass    |      |
|                             |                 |               |         | 30         | 3.87          | -0.019           | 0.0000                | /       | Pass    |      |
|                             |                 |               |         | 40         | 3.87          | -0.619           | -0.0009               | /       | Pass    |      |
|                             | 50              | 3.87          | 0.161   | 0.0002     | /             | Pass             |                       |         |         |      |
|                             | 710             | 50            | 0       | 20         | 3.5           | 0.173            | 0.0002                | /       | Pass    |      |
|                             |                 |               |         |            | 3.87          | 3.479            | 0.0049                | /       | Pass    |      |
|                             |                 |               |         |            | 4.45          | 2.632            | 0.0037                | /       | Pass    |      |
|                             |                 |               |         | -30        | 3.87          | -2.531           | -0.0036               | /       | Pass    |      |
|                             |                 |               |         |            | -20           | 3.87             | 1.880                 | 0.0026  | /       | Pass |
|                             |                 |               |         |            |               | -10              | 3.87                  | -0.048  | -0.0001 | /    |
|                             |                 |               |         | 0          | 3.87          | 0.555            | 0.0008                | /       | Pass    |      |
|                             |                 |               |         | 10         | 3.87          | 2.320            | 0.0033                | /       | Pass    |      |
|                             |                 |               |         | 30         | 3.87          | 3.479            | 0.0049                | /       | Pass    |      |
|                             |                 |               |         | 40         | 3.87          | 2.912            | 0.0041                | /       | Pass    |      |
|                             | 50              | 3.87          | 2.127   | 0.0030     | /             | Pass             |                       |         |         |      |
|                             | 711             | 50            | 0       | 20         | 3.5           | 1.598            | 0.0022                | /       | Pass    |      |
|                             |                 |               |         |            | 3.87          | 0.742            | 0.0010                | /       | Pass    |      |
|                             |                 |               |         |            | 4.45          | 2.801            | 0.0039                | /       | Pass    |      |
|                             |                 |               |         | -30        | 3.87          | 1.023            | 0.0014                | /       | Pass    |      |
|                             |                 |               |         |            | -20           | 3.87             | 0.897                 | 0.0013  | /       | Pass |
|                             |                 |               |         |            |               | -10              | 3.87                  | 3.892   | 0.0055  | /    |
|                             |                 |               |         | 0          | 3.87          | 1.760            | 0.0025                | /       | Pass    |      |
|                             |                 |               |         | 10         | 3.87          | 0.705            | 0.0010                | /       | Pass    |      |
| 30                          |                 |               |         | 3.87       | 3.240         | 0.0046           | /                     | Pass    |         |      |
| 40                          |                 |               |         | 3.87       | 0.192         | 0.0003           | /                     | Pass    |         |      |
| 50                          | 3.87            | -0.142        | -0.0002 | /          | Pass          |                  |                       |         |         |      |
| 16QAM                       | 709             | 50            | 0       | 20         | 3.5           | -2.013           | -0.0028               | /       | Pass    |      |
|                             |                 |               |         |            | 3.87          | 1.971            | 0.0028                | /       | Pass    |      |
|                             |                 |               |         |            | 4.45          | -1.686           | -0.0024               | /       | Pass    |      |
|                             |                 |               |         | -30        | 3.87          | -0.269           | -0.0004               | /       | Pass    |      |
|                             |                 |               |         |            | -20           | 3.87             | -1.244                | -0.0018 | /       | Pass |
|                             |                 |               |         |            |               | -10              | 3.87                  | 0.879   | 0.0012  | /    |
|                             |                 |               |         | 0          | 3.87          | -3.875           | -0.0055               | /       | Pass    |      |
|                             |                 |               |         | 10         | 3.87          | 1.197            | 0.0017                | /       | Pass    |      |



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|       |      |        |        |      |        |         |         |        |         |         |      |      |
|-------|------|--------|--------|------|--------|---------|---------|--------|---------|---------|------|------|
| 64QAM | 710  | 50     | 0      | 30   | 3.87   | 1.966   | 0.0028  | /      | Pass    |         |      |      |
|       |      |        |        | 40   | 3.87   | 2.294   | 0.0032  | /      | Pass    |         |      |      |
|       |      |        |        | 50   | 3.87   | 2.591   | 0.0037  | /      | Pass    |         |      |      |
|       |      |        |        | 20   | 3.5    | 2.004   | 0.0028  | /      | Pass    |         |      |      |
|       |      |        |        |      | 3.87   | 3.321   | 0.0047  | /      | Pass    |         |      |      |
|       |      |        |        |      | 4.45   | 1.721   | 0.0024  | /      | Pass    |         |      |      |
|       |      |        |        | -30  | 3.87   | 3.271   | 0.0046  | /      | Pass    |         |      |      |
|       |      |        |        | -20  | 3.87   | 0.761   | 0.0011  | /      | Pass    |         |      |      |
|       |      |        |        | -10  | 3.87   | -1.957  | -0.0028 | /      | Pass    |         |      |      |
|       |      |        |        | 0    | 3.87   | -0.385  | -0.0005 | /      | Pass    |         |      |      |
|       |      |        |        | 10   | 3.87   | 2.406   | 0.0034  | /      | Pass    |         |      |      |
|       |      |        |        | 30   | 3.87   | 0.152   | 0.0002  | /      | Pass    |         |      |      |
|       |      |        |        | 40   | 3.87   | 0.189   | 0.0003  | /      | Pass    |         |      |      |
|       |      |        |        | 50   | 3.87   | 1.781   | 0.0025  | /      | Pass    |         |      |      |
|       |      |        |        | 711  | 50     | 0       | 20      | 3.5    | -0.293  | -0.0004 | /    | Pass |
|       | 3.87 | -0.020 | 0.0000 |      |        |         |         | /      | Pass    |         |      |      |
|       | 4.45 | 3.096  | 0.0044 |      |        |         |         | /      | Pass    |         |      |      |
|       | -30  | 3.87   | -0.735 |      |        |         | -0.0010 | /      | Pass    |         |      |      |
|       | -20  | 3.87   | -1.602 |      |        |         | -0.0023 | /      | Pass    |         |      |      |
|       | -10  | 3.87   | -0.068 |      |        |         | -0.0001 | /      | Pass    |         |      |      |
|       | 0    | 3.87   | 3.020  |      |        |         | 0.0042  | /      | Pass    |         |      |      |
|       | 10   | 3.87   | 4.324  |      |        |         | 0.0061  | /      | Pass    |         |      |      |
|       | 30   | 3.87   | -0.648 |      |        |         | -0.0009 | /      | Pass    |         |      |      |
|       | 40   | 3.87   | 1.075  |      |        |         | 0.0015  | /      | Pass    |         |      |      |
|       | 50   | 3.87   | -0.809 |      |        |         | -0.0011 | /      | Pass    |         |      |      |
|       | 709  | 50     | 0      |      |        |         | 20      | 3.5    | 4.092   | 0.0058  | /    | Pass |
|       |      |        |        |      |        |         |         | 3.87   | 3.431   | 0.0048  | /    | Pass |
|       |      |        |        |      |        |         |         | 4.45   | 0.400   | 0.0006  | /    | Pass |
|       |      |        |        |      |        |         | -30     | 3.87   | 2.313   | 0.0033  | /    | Pass |
|       |      |        |        | -20  | 3.87   | 2.480   | 0.0035  | /      | Pass    |         |      |      |
| -10   |      |        |        | 3.87 | -1.206 | -0.0017 | /       | Pass   |         |         |      |      |
| 0     |      |        |        | 3.87 | 1.255  | 0.0018  | /       | Pass   |         |         |      |      |
| 10    |      |        |        | 3.87 | 0.459  | 0.0006  | /       | Pass   |         |         |      |      |
| 30    |      |        |        | 3.87 | 0.588  | 0.0008  | /       | Pass   |         |         |      |      |
| 40    |      |        |        | 3.87 | 1.006  | 0.0014  | /       | Pass   |         |         |      |      |
| 50    |      |        |        | 3.87 | 1.169  | 0.0016  | /       | Pass   |         |         |      |      |
| 710   |      |        |        | 50   | 0      | 20      | 3.5     | 1.468  | 0.0021  | /       | Pass |      |
|       |      |        |        |      |        |         | 3.87    | 1.141  | 0.0016  | /       | Pass |      |
|       |      |        |        |      |        |         | 4.45    | 1.827  | 0.0026  | /       | Pass |      |
|       |      |        |        |      |        | -30     | 3.87    | -0.605 | -0.0009 | /       | Pass |      |
|       | -20  | 3.87   | 0.887  |      |        | 0.0012  | /       | Pass   |         |         |      |      |
|       | -10  | 3.87   | 1.292  |      |        | 0.0018  | /       | Pass   |         |         |      |      |
|       | 0    | 3.87   | 1.020  |      |        | 0.0014  | /       | Pass   |         |         |      |      |
|       | 10   | 3.87   | 1.931  |      |        | 0.0027  | /       | Pass   |         |         |      |      |
|       | 30   | 3.87   | 1.191  |      |        | 0.0017  | /       | Pass   |         |         |      |      |
|       | 40   | 3.87   | -1.871 |      |        | -0.0026 | /       | Pass   |         |         |      |      |
|       | 50   | 3.87   | 2.985  |      |        | 0.0042  | /       | Pass   |         |         |      |      |
|       | 711  | 50     | 0      |      |        | 20      | 3.5     | 0.542  | 0.0008  | /       | Pass |      |
|       |      |        |        |      |        |         | 3.87    | 1.232  | 0.0017  | /       | Pass |      |



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|  |  |  |     |      |        |         |   |      |
|--|--|--|-----|------|--------|---------|---|------|
|  |  |  |     | 4.45 | 1.918  | 0.0027  | / | Pass |
|  |  |  | -30 | 3.87 | 2.416  | 0.0034  | / | Pass |
|  |  |  | -20 | 3.87 | 3.505  | 0.0049  | / | Pass |
|  |  |  | -10 | 3.87 | -0.720 | -0.0010 | / | Pass |
|  |  |  | 0   | 3.87 | 0.653  | 0.0009  | / | Pass |
|  |  |  | 10  | 3.87 | 0.524  | 0.0007  | / | Pass |
|  |  |  | 30  | 3.87 | 3.583  | 0.0050  | / | Pass |
|  |  |  | 40  | 3.87 | 0.957  | 0.0013  | / | Pass |
|  |  |  | 50  | 3.87 | 1.243  | 0.0017  | / | Pass |



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### 3. 99% & 26dB Bandwidth

#### 3.1 Band17\_OBW

##### 3.1.1 Test Result

| Band: 17 / NTNV |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 5               | QPSK       | 706.5           | 25            | 0      | 4.531                        | /     | Pass    |
|                 |            | 710             | 25            | 0      | 4.531                        | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 4.571                        | /     | Pass    |
|                 | 16QAM      | 706.5           | 25            | 0      | 4.559                        | /     | Pass    |
|                 |            | 710             | 25            | 0      | 4.538                        | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 4.557                        | /     | Pass    |
|                 | 64QAM      | 706.5           | 25            | 0      | 4.546                        | /     | Pass    |
|                 |            | 710             | 25            | 0      | 4.531                        | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 4.568                        | /     | Pass    |
| 10              | QPSK       | 709             | 50            | 0      | 8.947                        | /     | Pass    |
|                 |            | 710             | 50            | 0      | 8.956                        | /     | Pass    |
|                 |            | 711             | 50            | 0      | 9.013                        | /     | Pass    |
|                 | 16QAM      | 709             | 50            | 0      | 8.944                        | /     | Pass    |
|                 |            | 710             | 50            | 0      | 8.961                        | /     | Pass    |
|                 |            | 711             | 50            | 0      | 9.033                        | /     | Pass    |
|                 | 64QAM      | 709             | 50            | 0      | 8.941                        | /     | Pass    |
|                 |            | 710             | 50            | 0      | 8.957                        | /     | Pass    |
|                 |            | 711             | 50            | 0      | 9.023                        | /     | Pass    |



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3.2 Band17\_XDB

3.2.1 Test Result

| Band: 17 / NTNV |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 5               | QPSK       | 706.5           | 25            | 0      | 5.030                | /     | Pass    |
|                 |            | 710             | 25            | 0      | 4.985                | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 5.117                | /     | Pass    |
|                 | 16QAM      | 706.5           | 25            | 0      | 5.034                | /     | Pass    |
|                 |            | 710             | 25            | 0      | 5.028                | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 5.037                | /     | Pass    |
|                 | 64QAM      | 706.5           | 25            | 0      | 5.057                | /     | Pass    |
|                 |            | 710             | 25            | 0      | 5.030                | /     | Pass    |
|                 |            | 713.5           | 25            | 0      | 5.082                | /     | Pass    |
| 10              | QPSK       | 709             | 50            | 0      | 9.890                | /     | Pass    |
|                 |            | 710             | 50            | 0      | 9.847                | /     | Pass    |
|                 |            | 711             | 50            | 0      | 9.932                | /     | Pass    |
|                 | 16QAM      | 709             | 50            | 0      | 9.788                | /     | Pass    |
|                 |            | 710             | 50            | 0      | 9.895                | /     | Pass    |
|                 |            | 711             | 50            | 0      | 9.895                | /     | Pass    |
|                 | 64QAM      | 709             | 50            | 0      | 9.808                | /     | Pass    |
|                 |            | 710             | 50            | 0      | 9.768                | /     | Pass    |
|                 |            | 711             | 50            | 0      | 9.882                | /     | Pass    |



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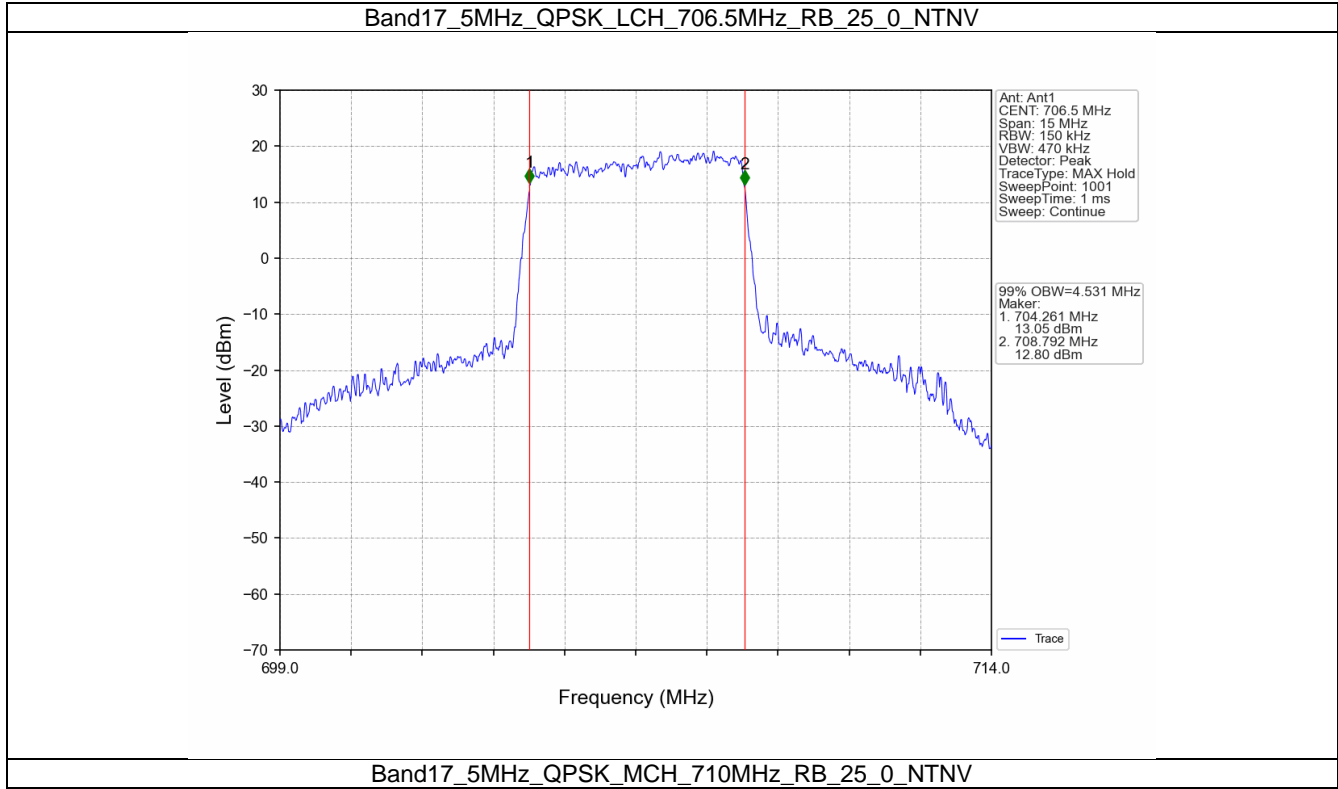
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3.1 Band17\_OBW

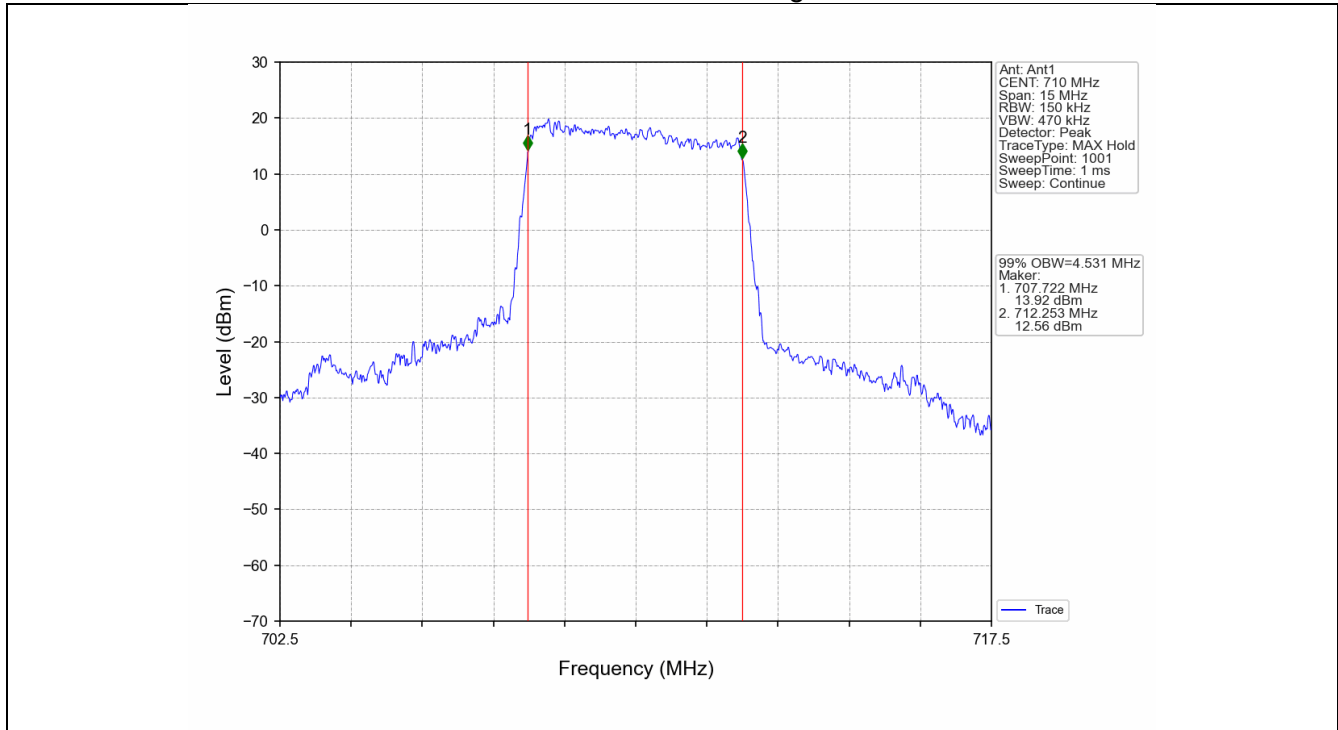
3.1.2 Test Graph



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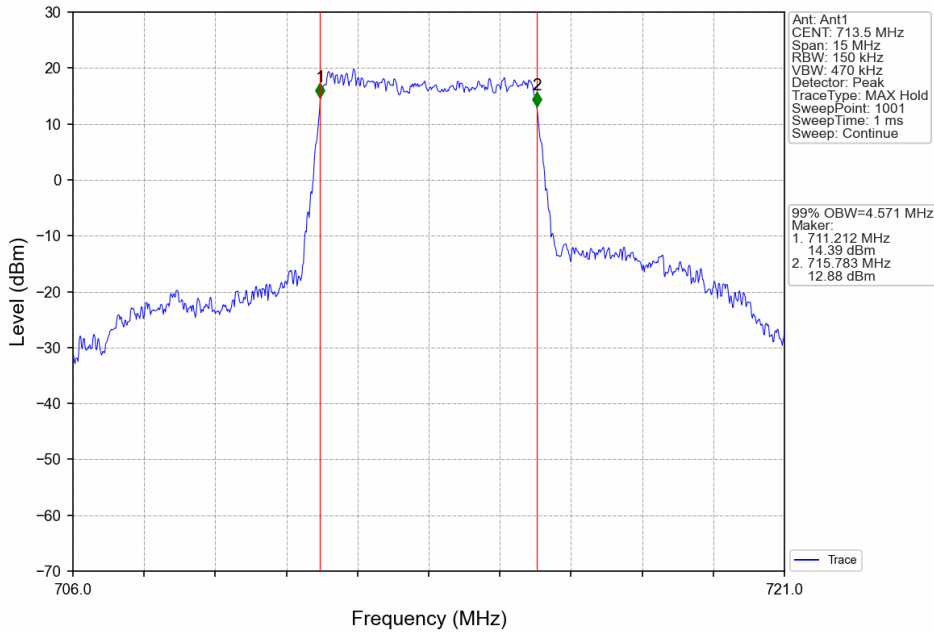


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Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



Band17\_5MHz\_16QAM\_LCH\_706.5MHz\_RB\_25\_0\_NTNV



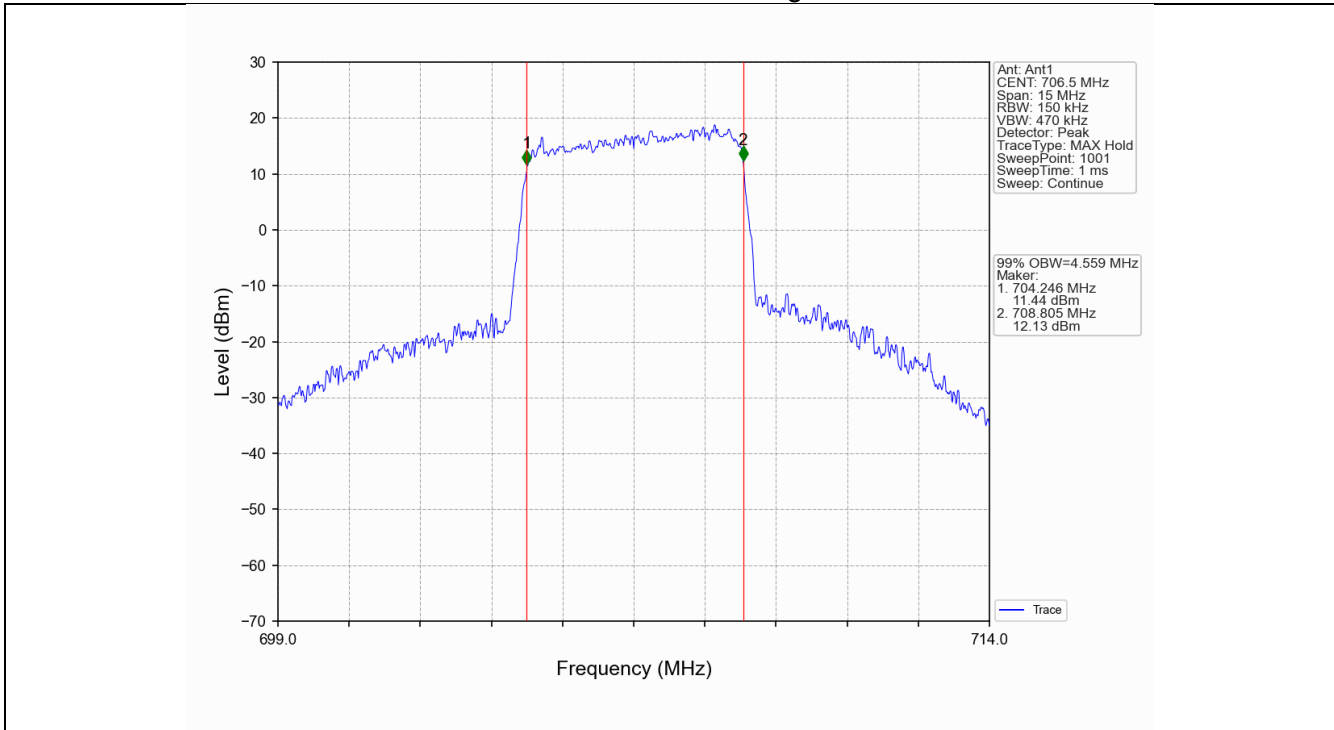
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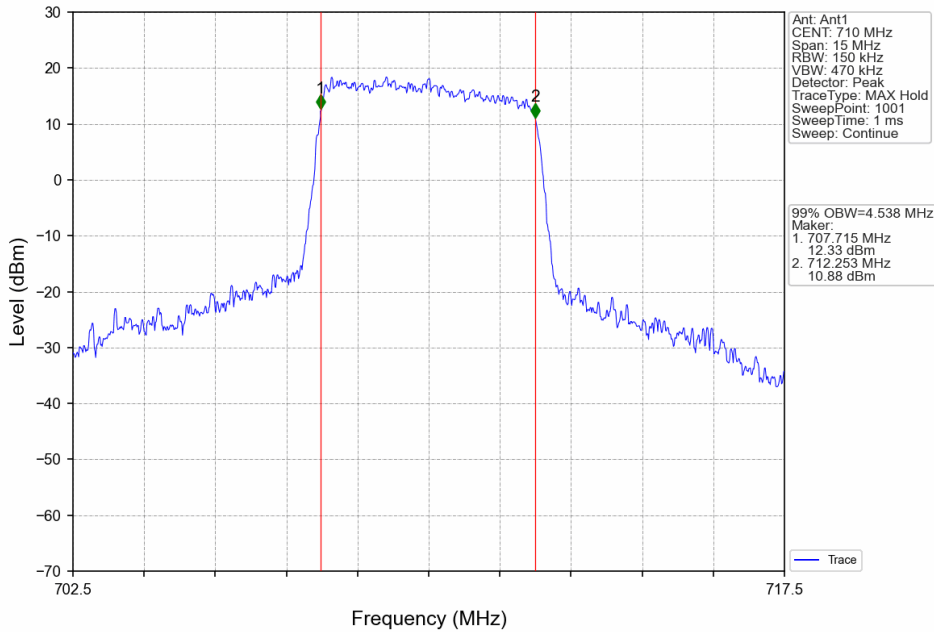
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Band17\_5MHz\_16QAM\_MCH\_710MHz\_RB\_25\_0\_NTNV



Band17\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



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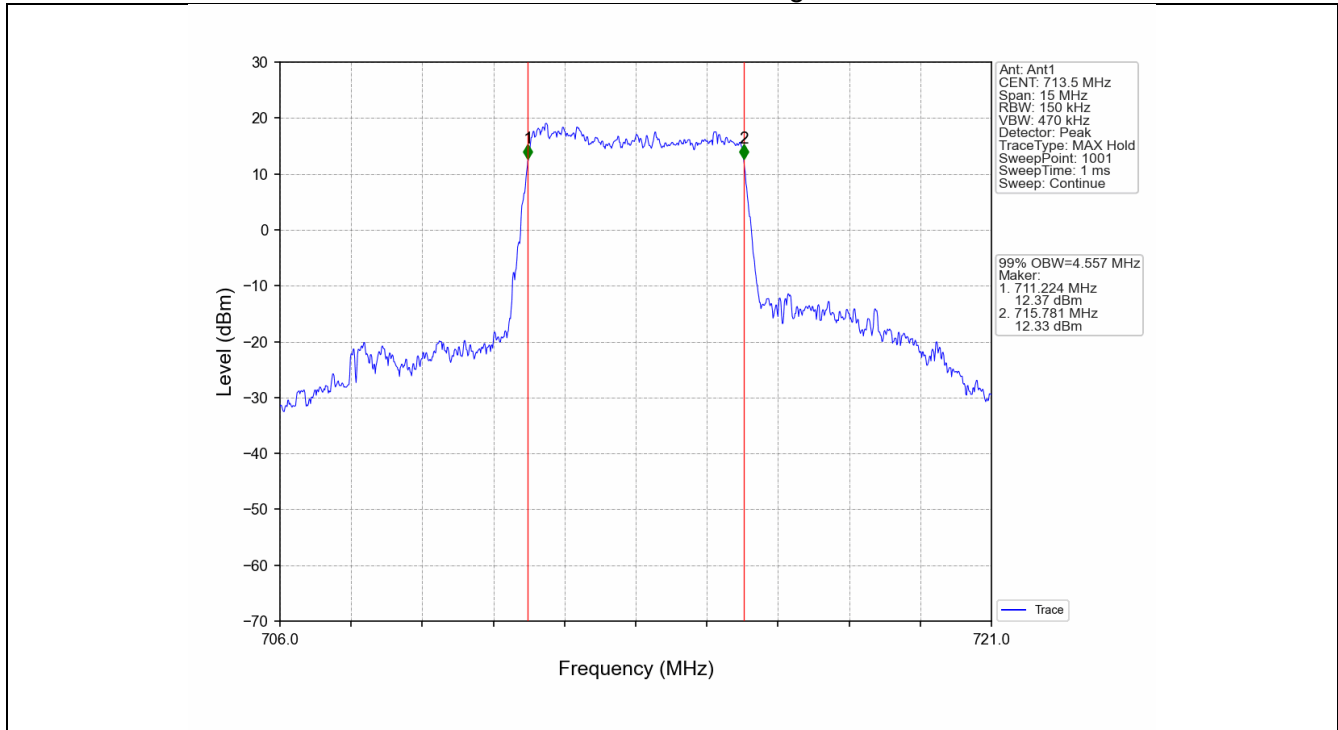
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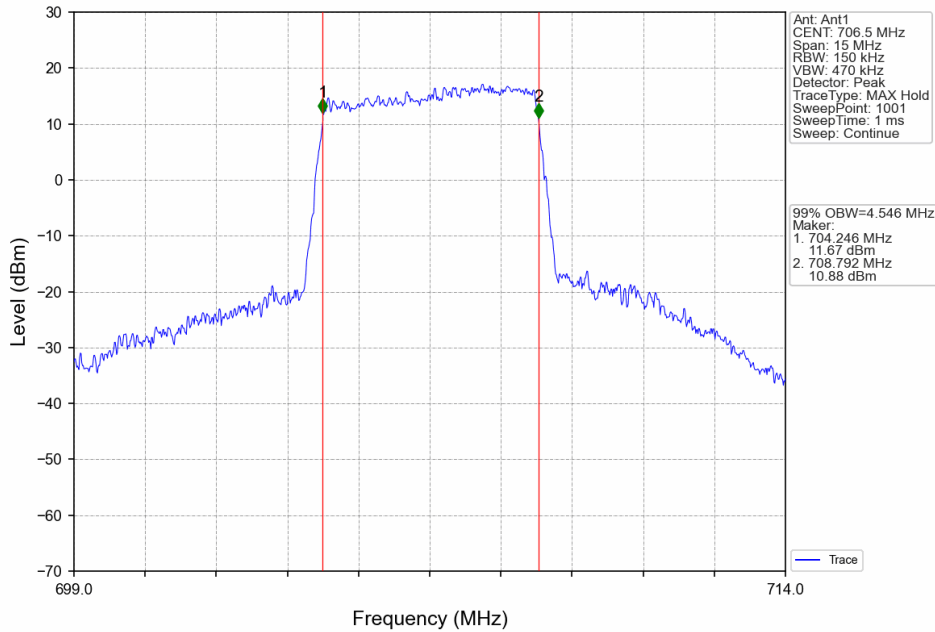
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Band17\_5MHz\_64QAM\_LCH\_706.5MHz\_RB\_25\_0\_NTNV



Band17\_5MHz\_64QAM\_MCH\_710MHz\_RB\_25\_0\_NTNV

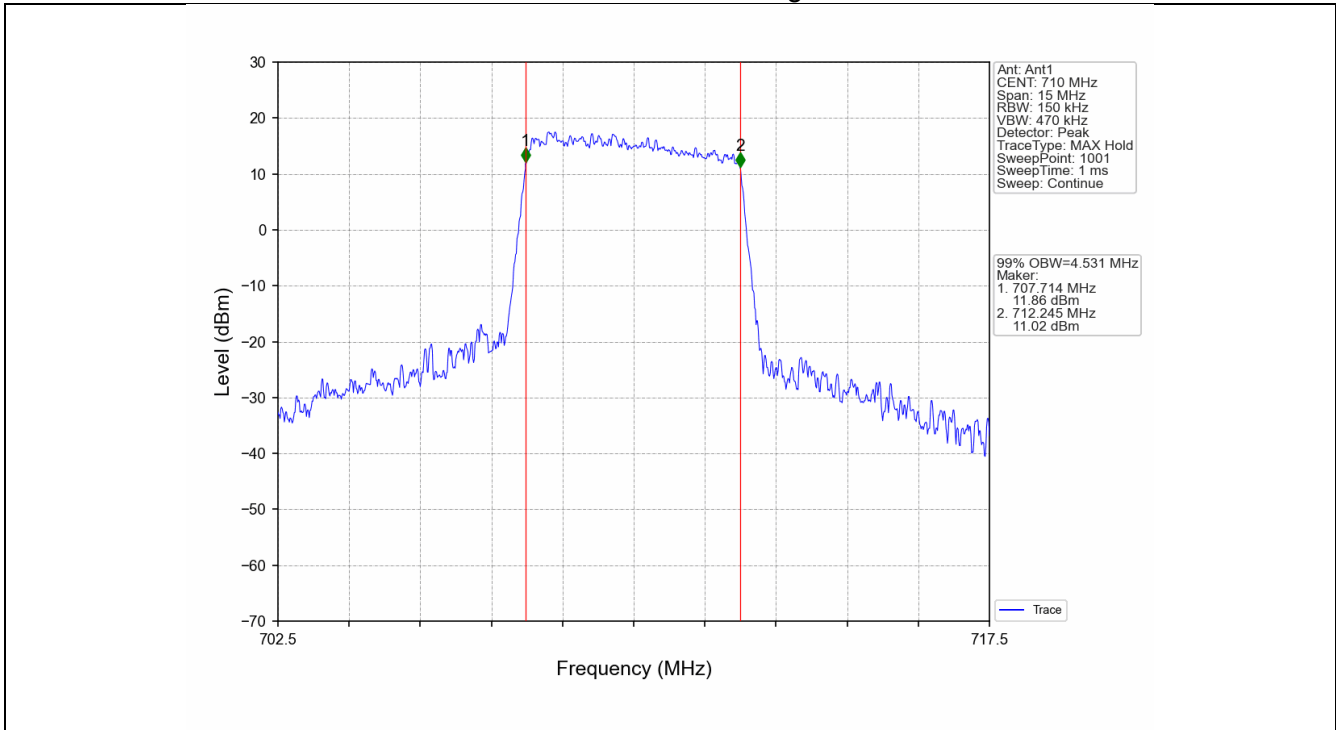


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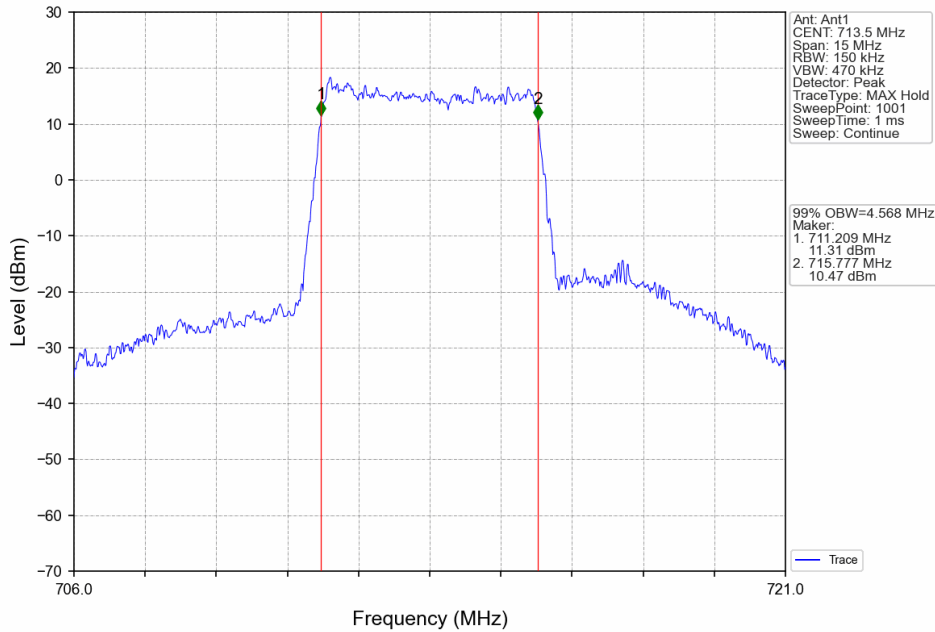
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Band17\_5MHz\_64QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



Band17\_10MHz\_QPSK\_LCH\_709MHz\_RB\_50\_0\_NTNV

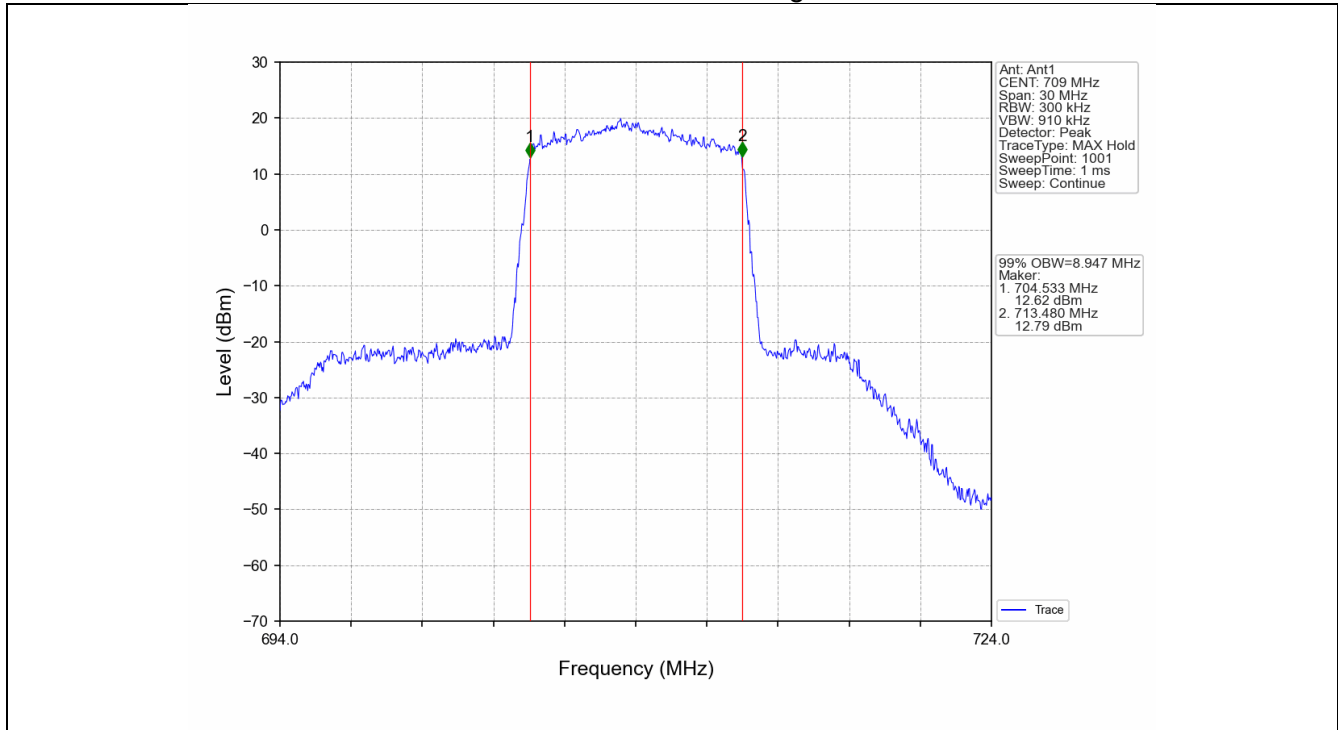


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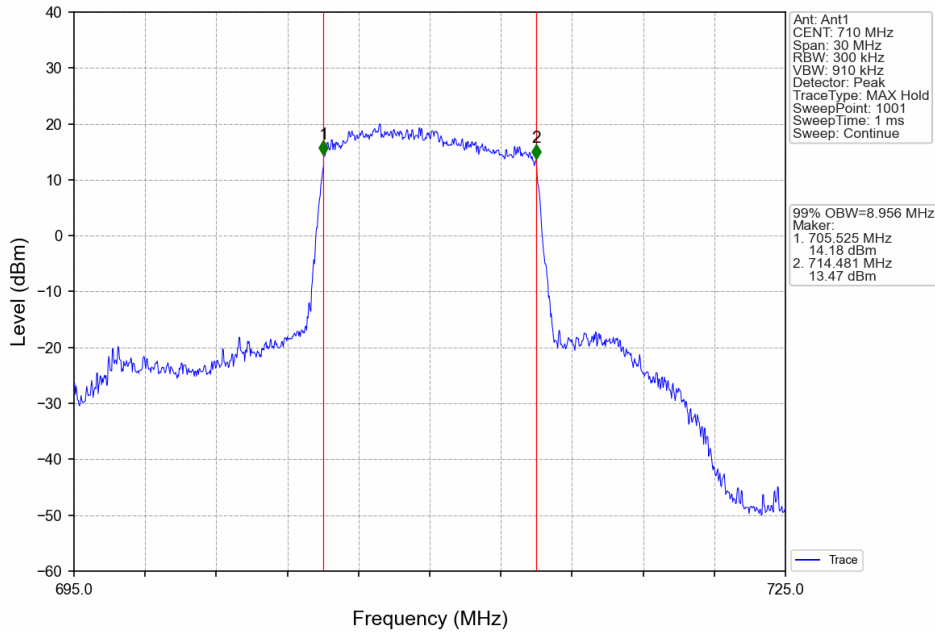
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Band17\_10MHz\_QPSK\_MCH\_710MHz\_RB\_50\_0\_NTNV



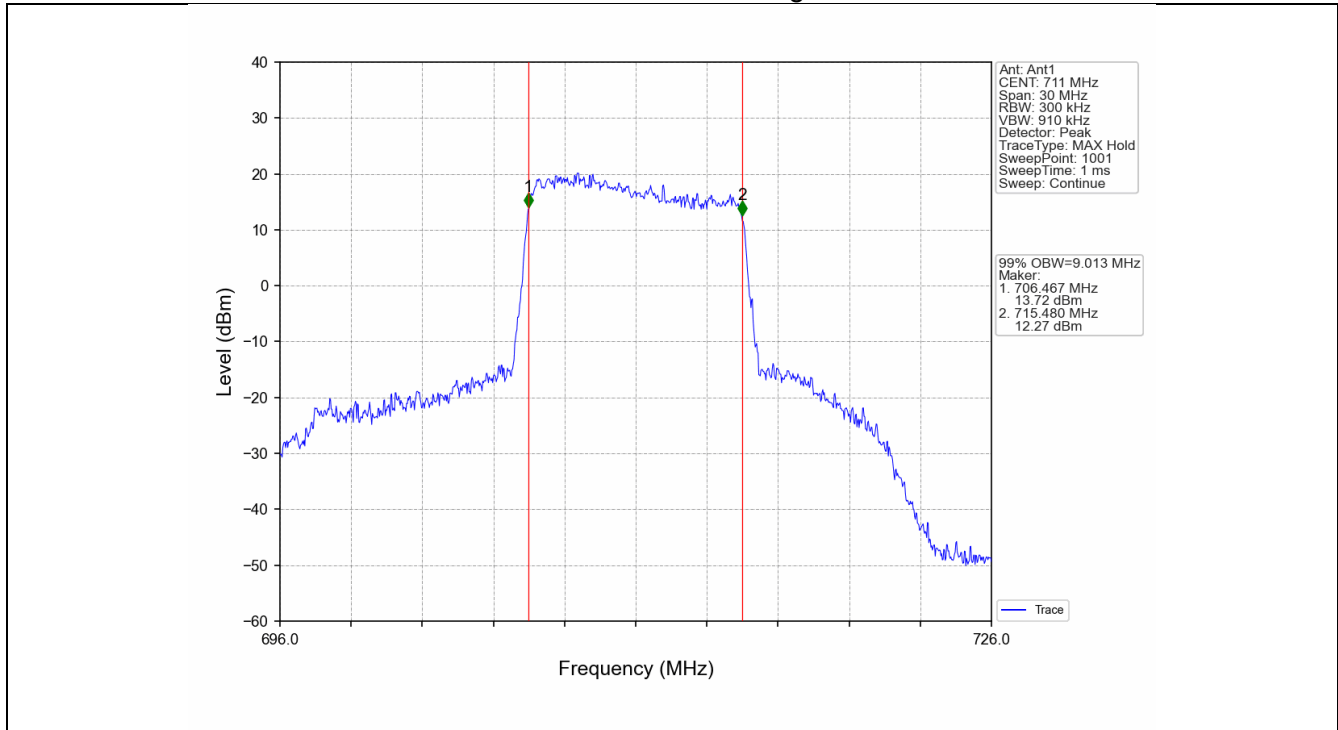
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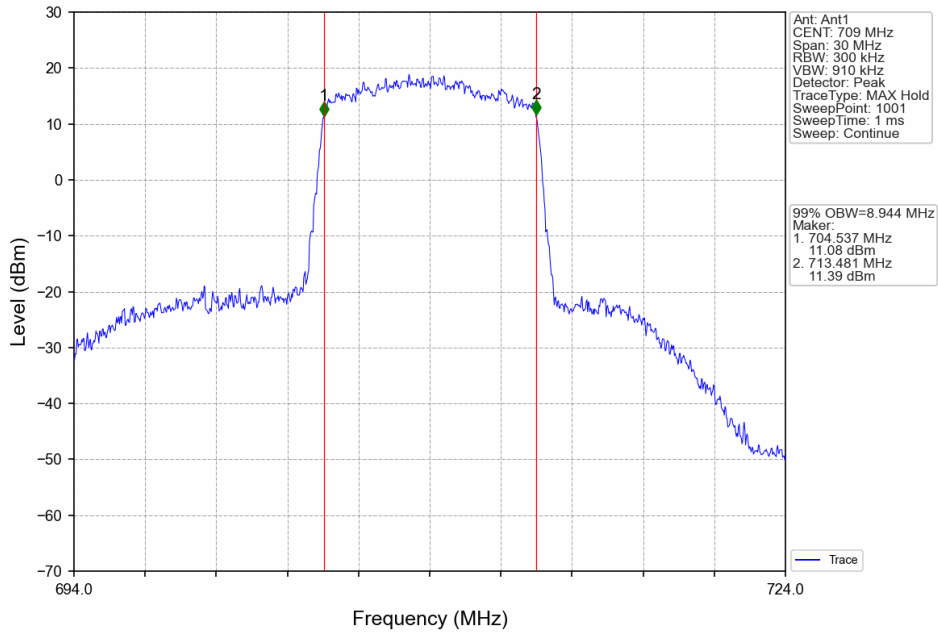


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Band17\_10MHz\_16QAM\_MCH\_710MHz\_RB\_50\_0\_NTNV



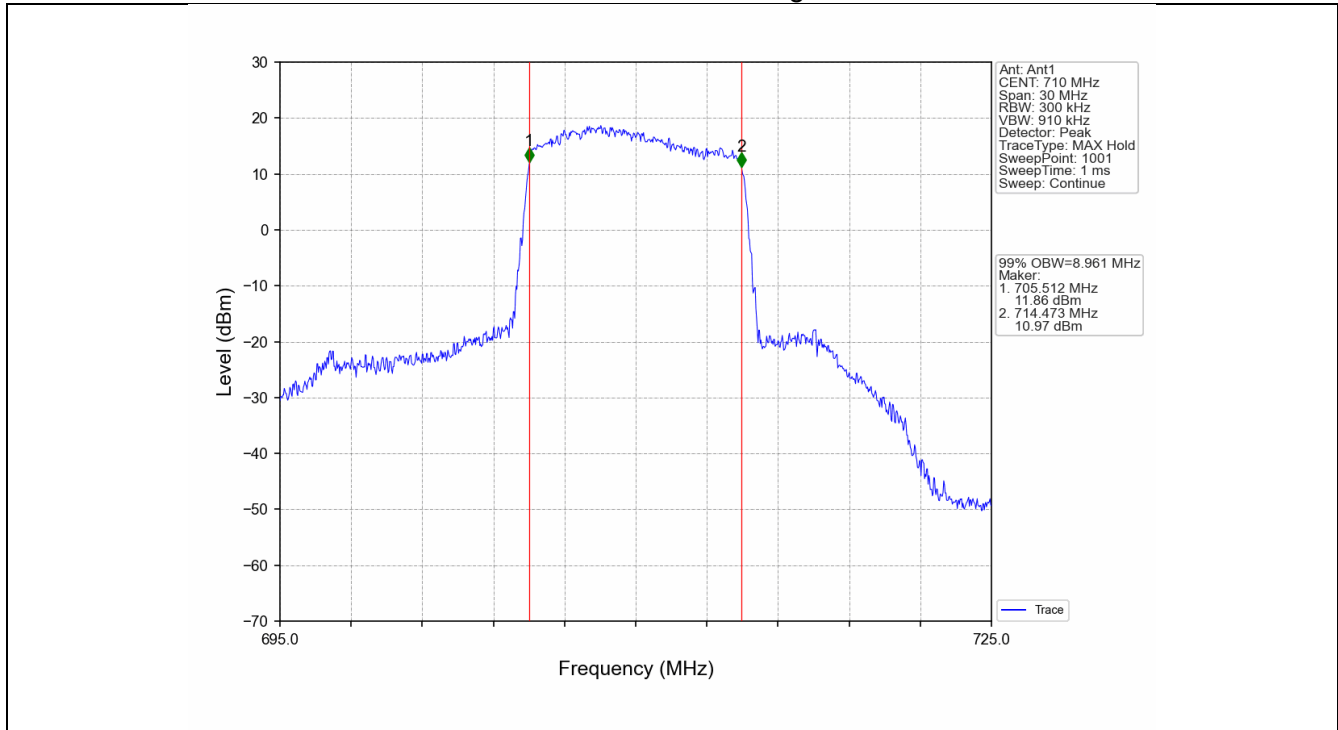
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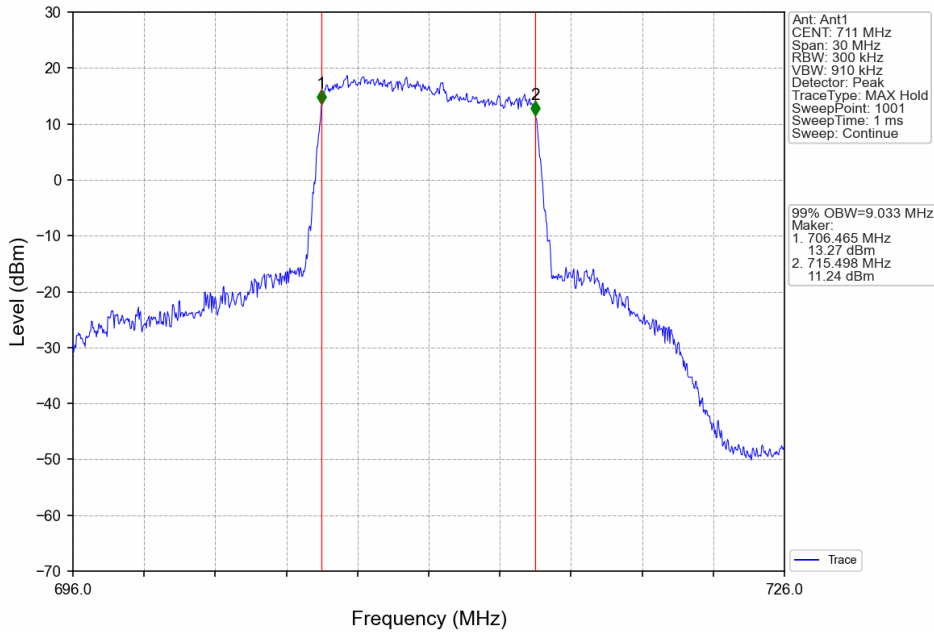


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Band17\_10MHz\_64QAM\_LCH\_709MHz\_RB\_50\_0\_NTNV



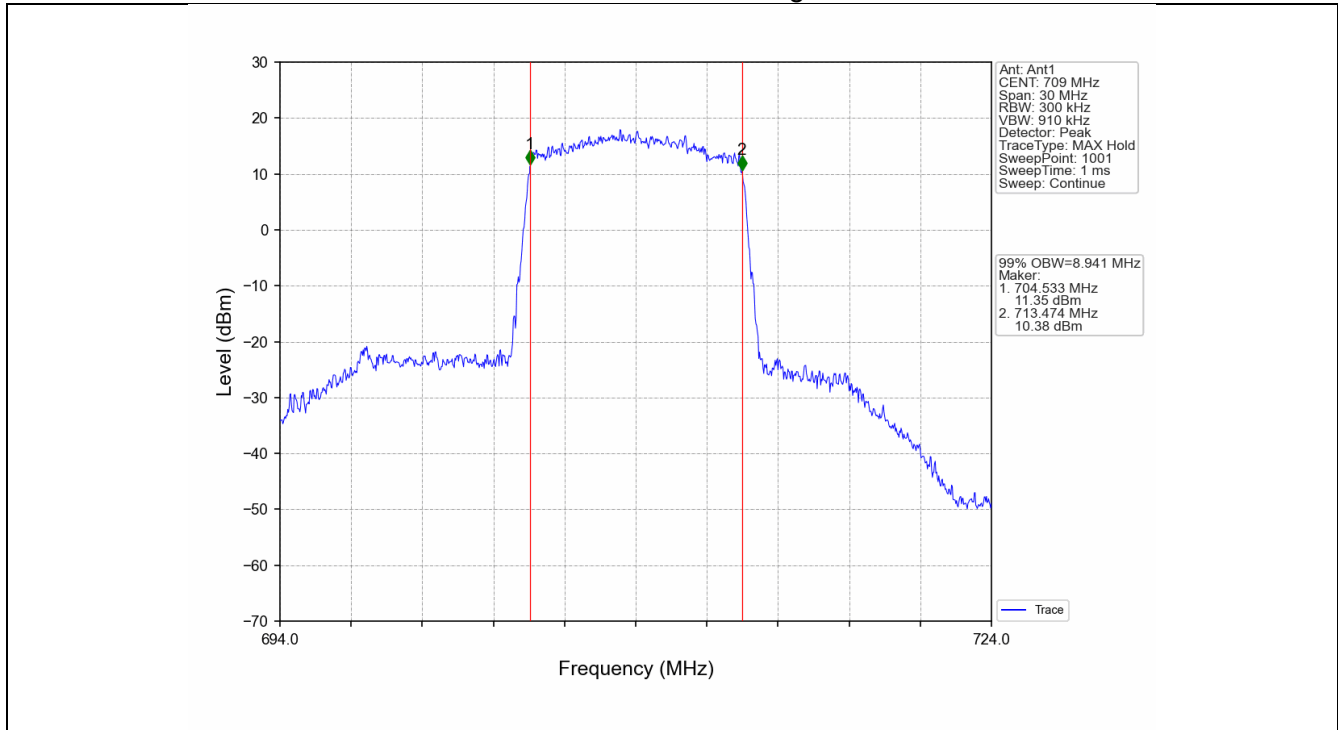
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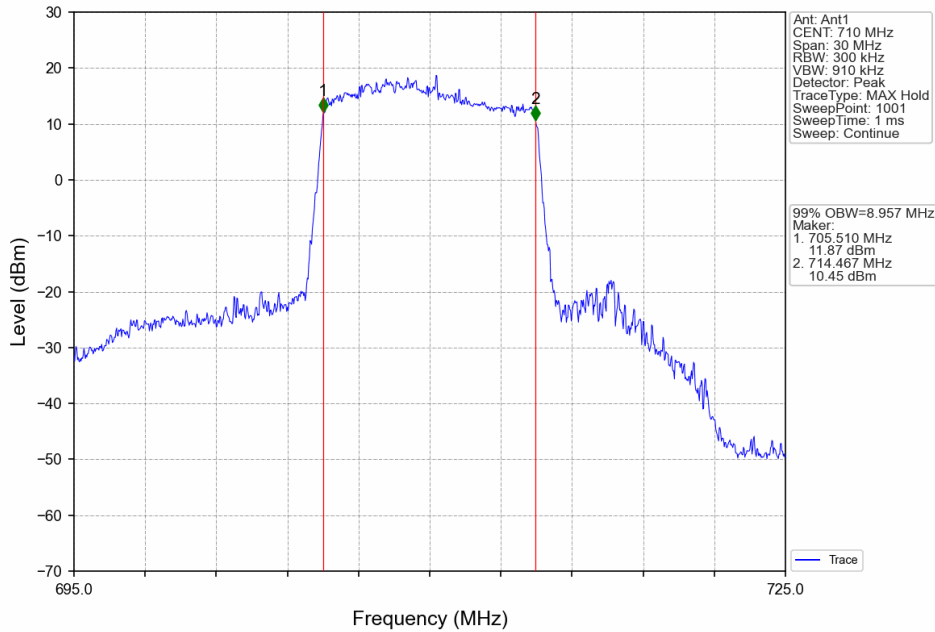
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Band17\_10MHz\_64QAM\_MCH\_710MHz\_RB\_50\_0\_NTNV



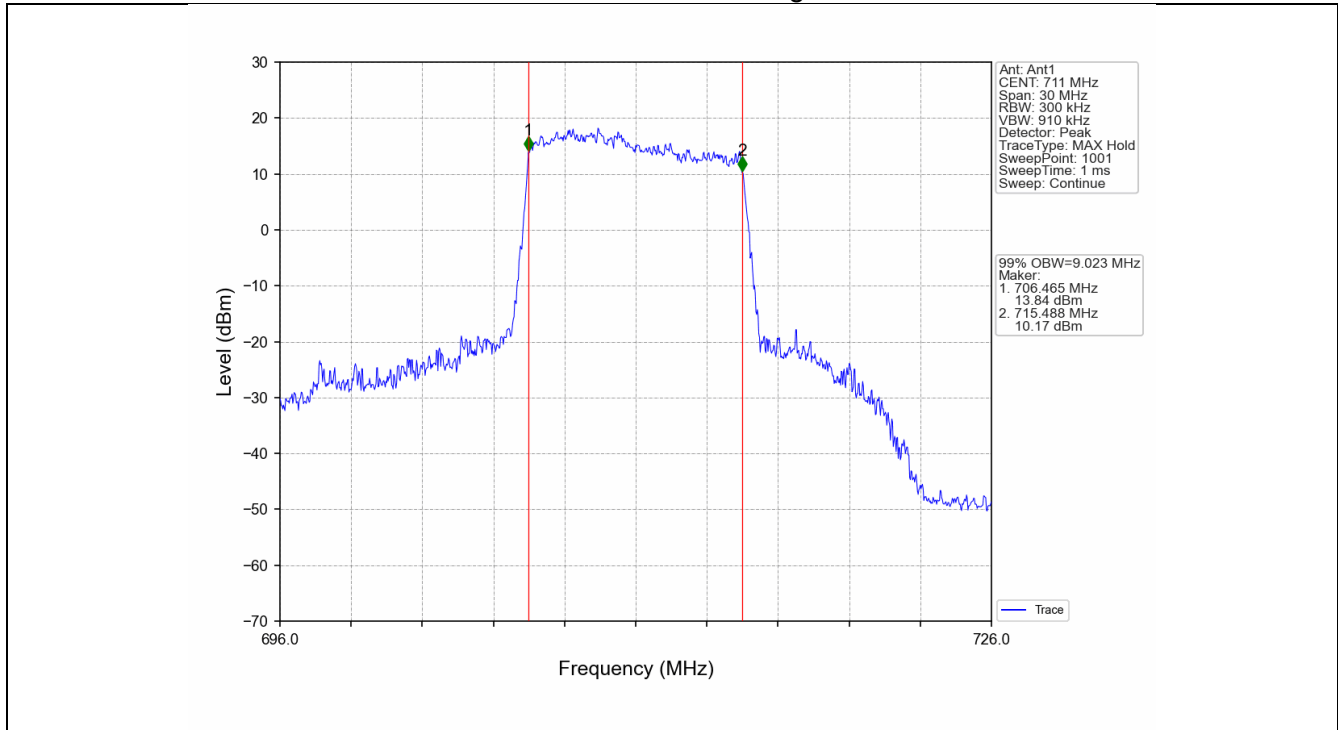
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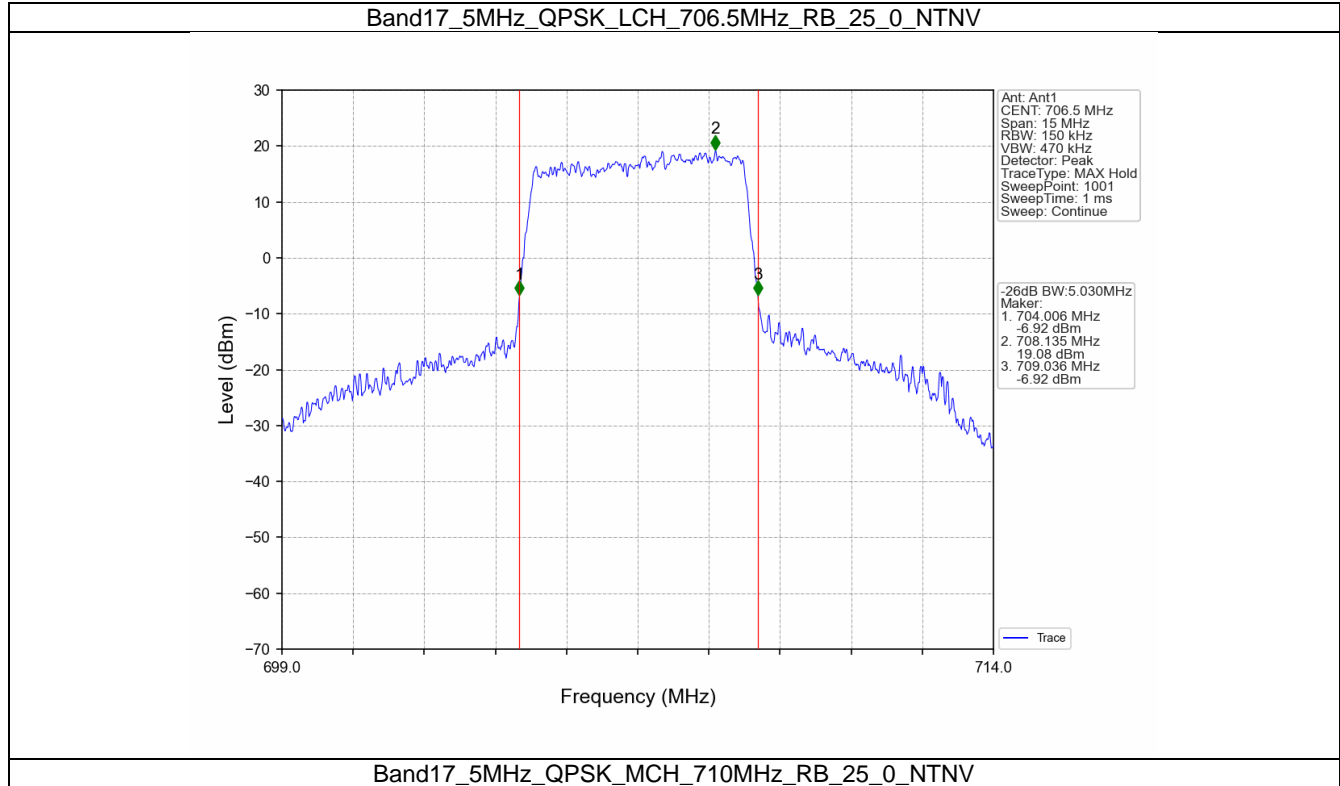
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### 3.2 Band17\_XDB

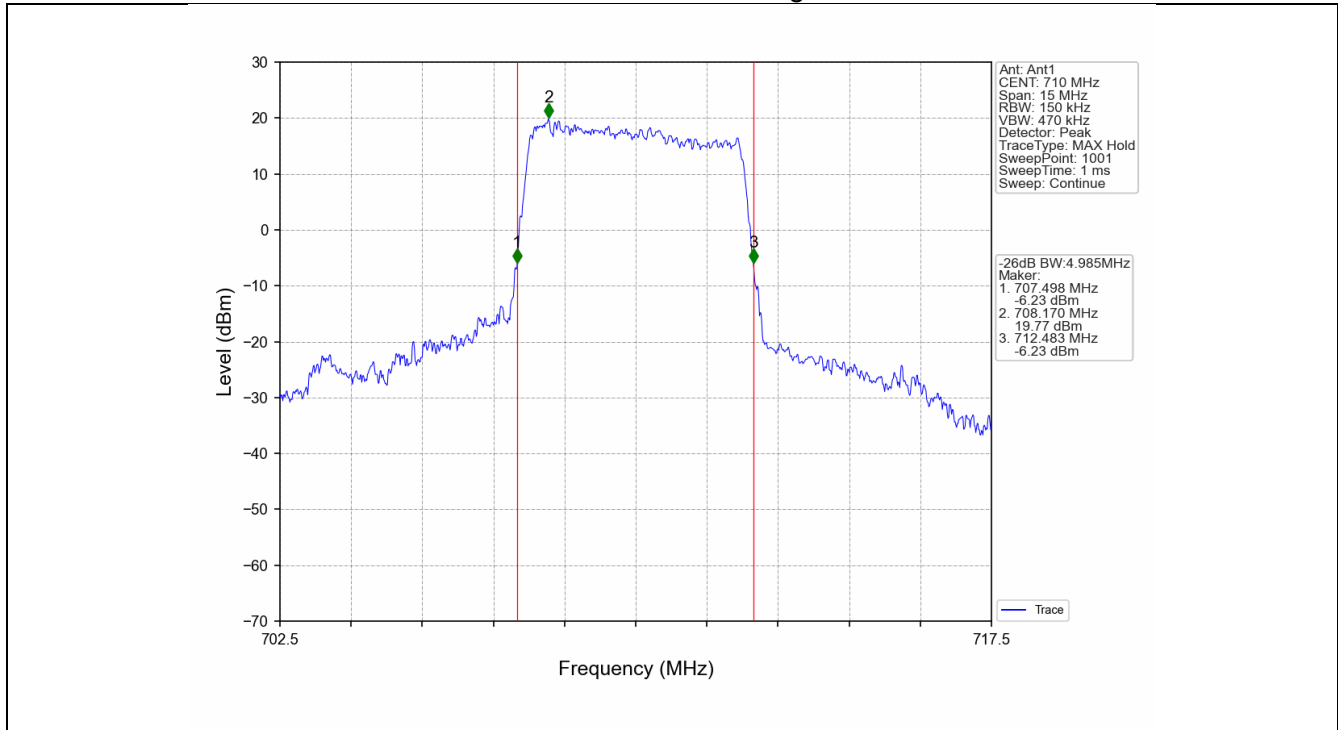
#### 3.2.2 Test Graph



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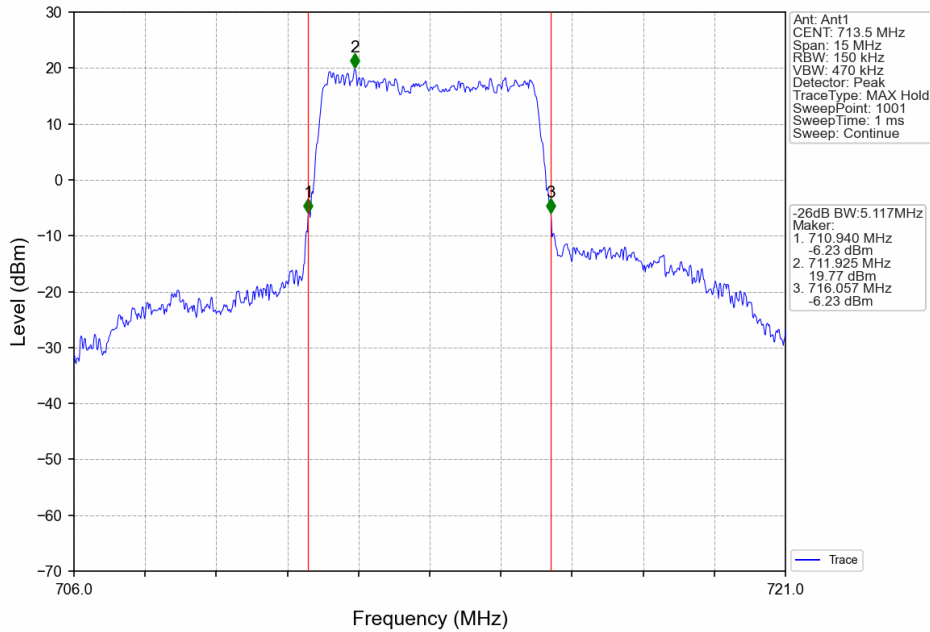
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Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



Band17\_5MHz\_16QAM\_LCH\_706.5MHz\_RB\_25\_0\_NTNV



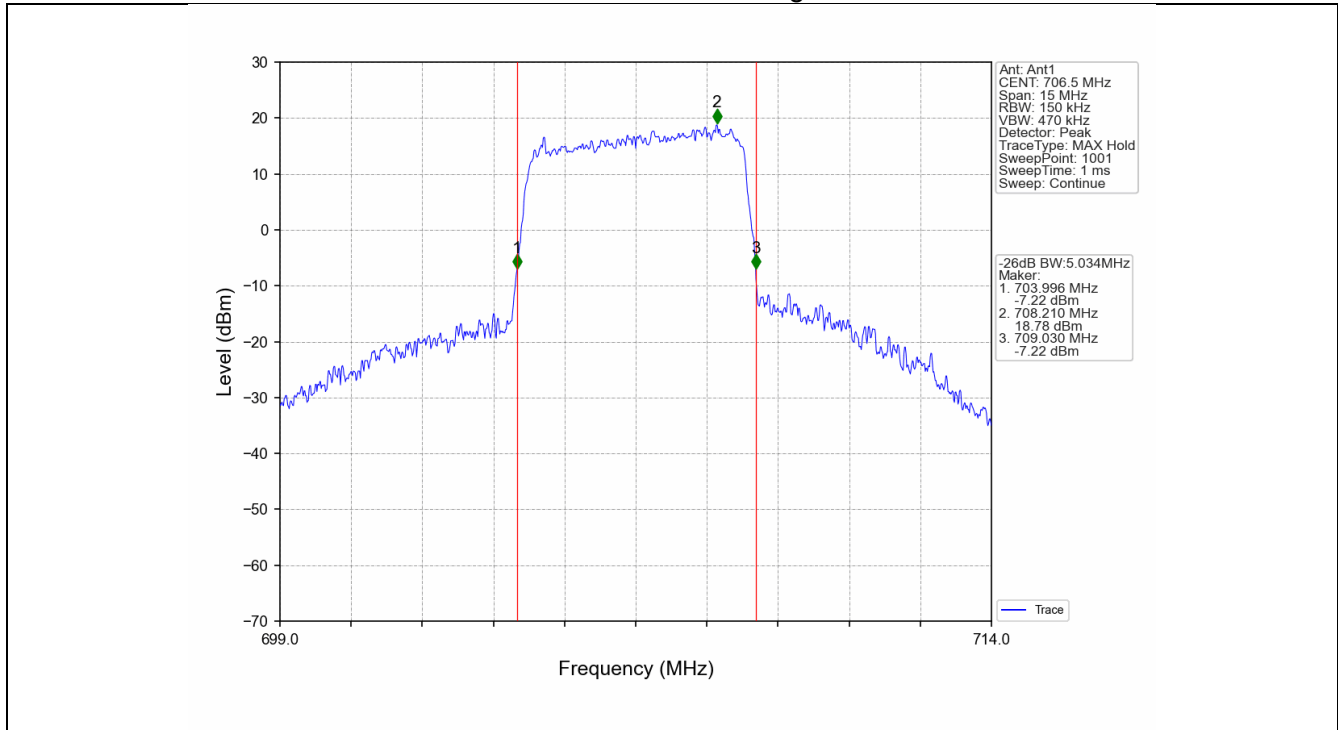
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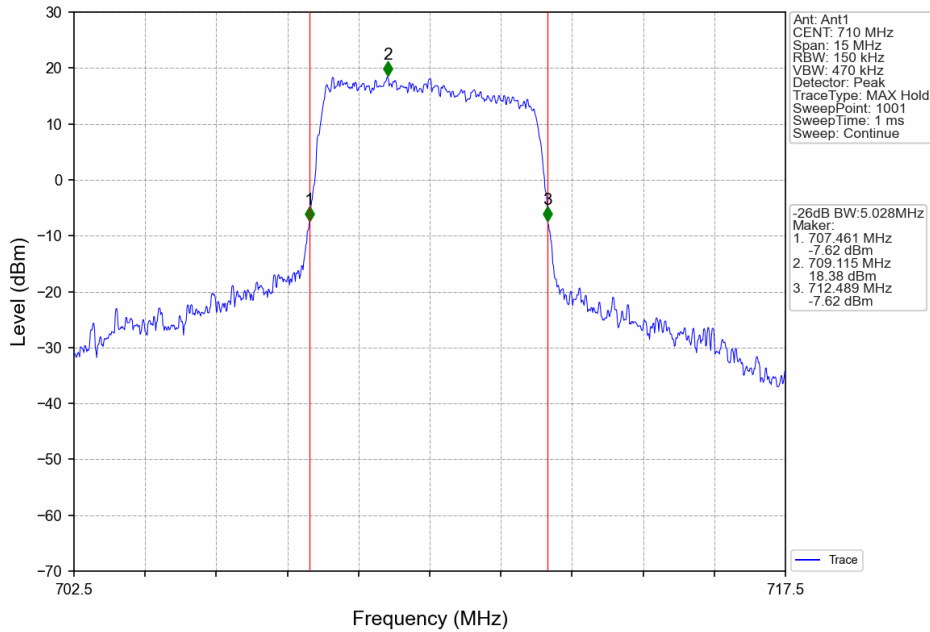
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Band17\_5MHz\_16QAM\_MCH\_710MHz\_RB\_25\_0\_NTNV



Band17\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV

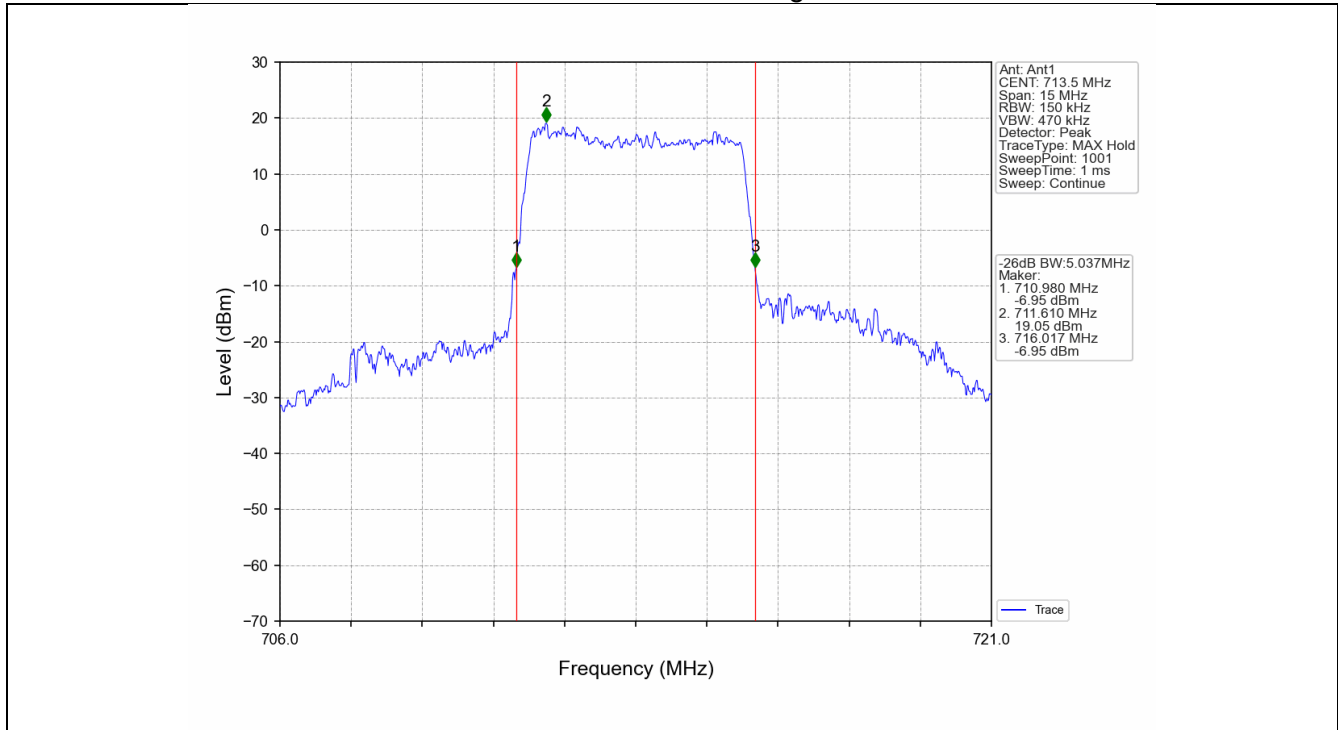


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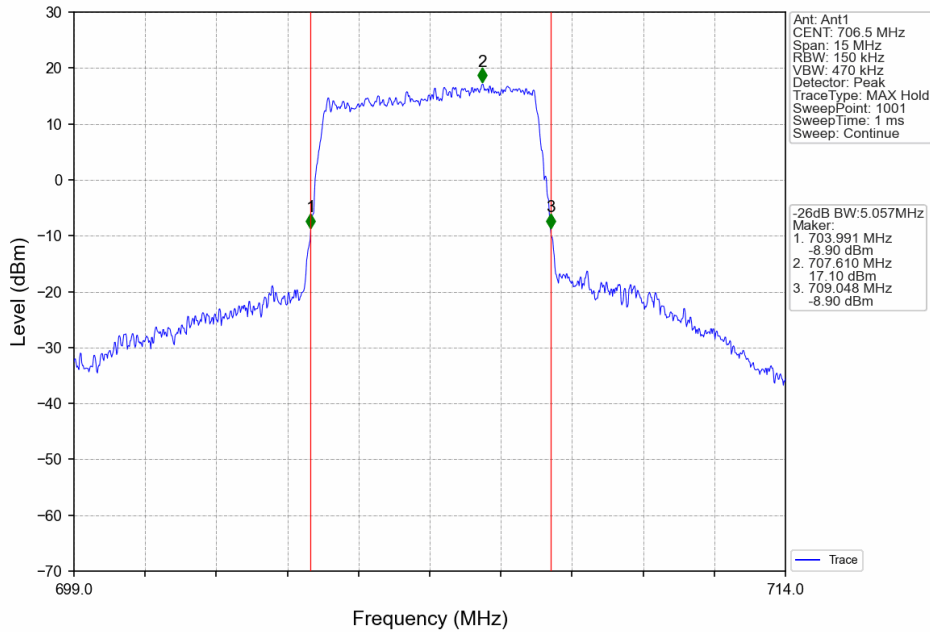
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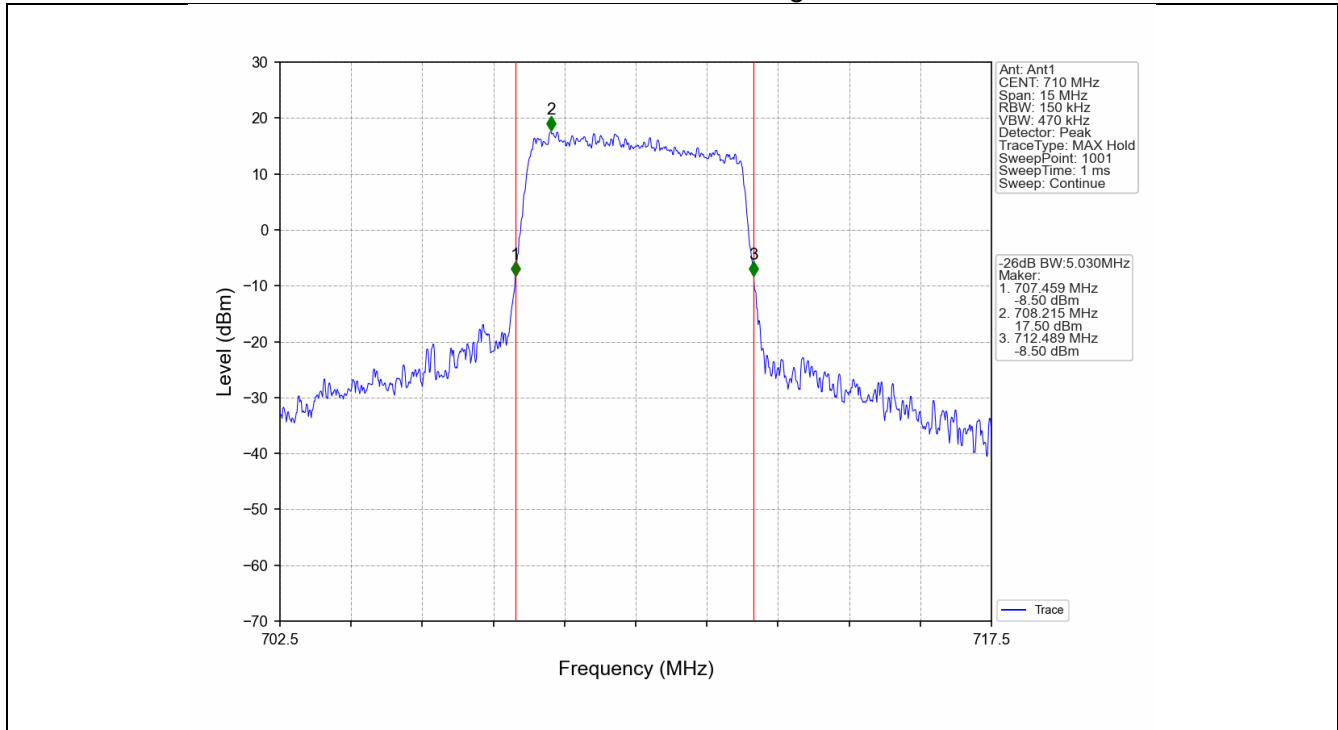


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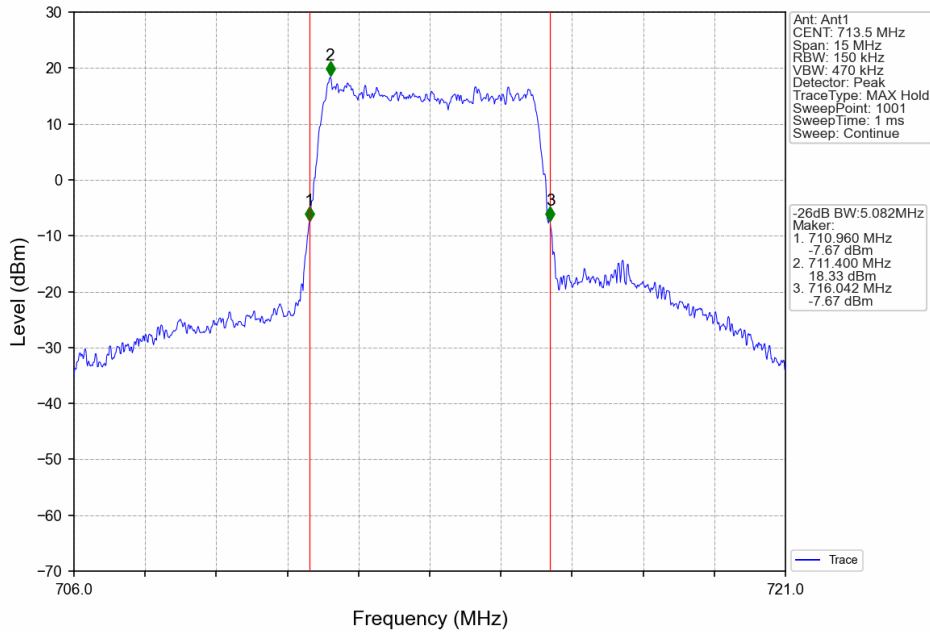
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Band17\_5MHz\_64QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



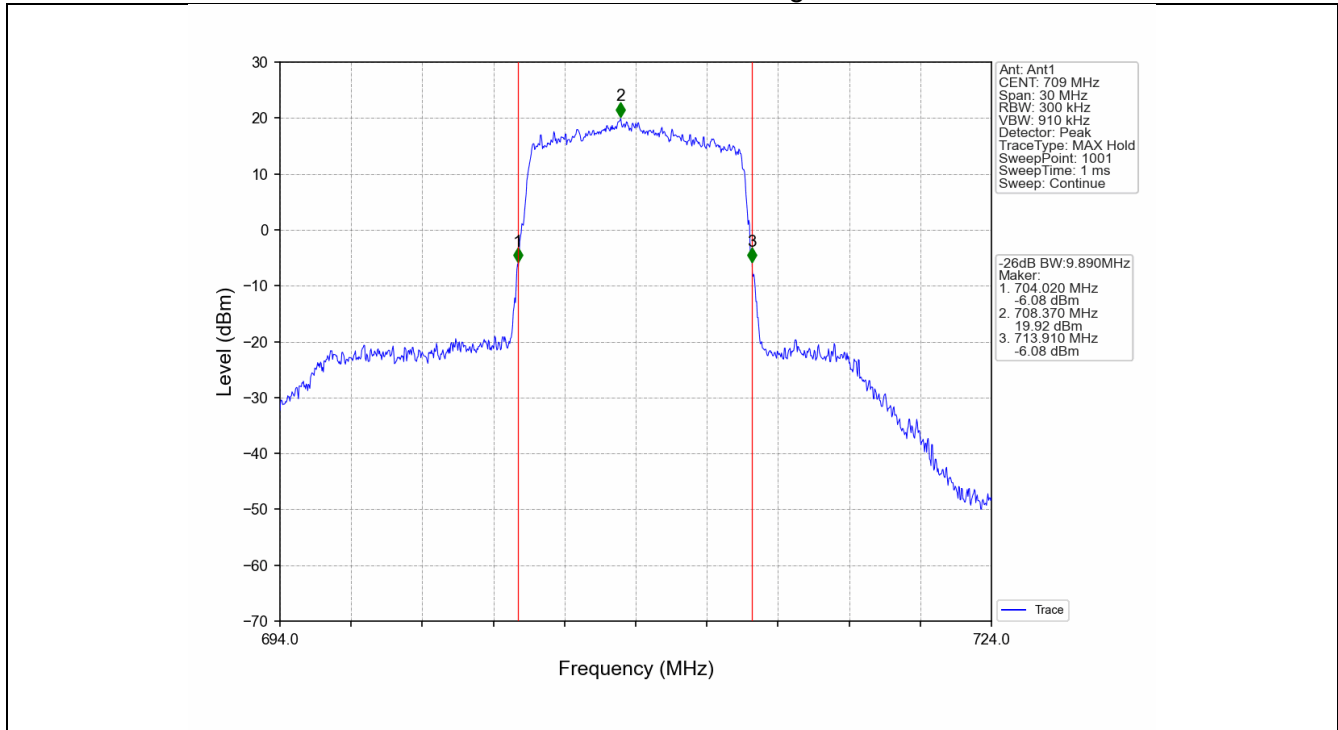
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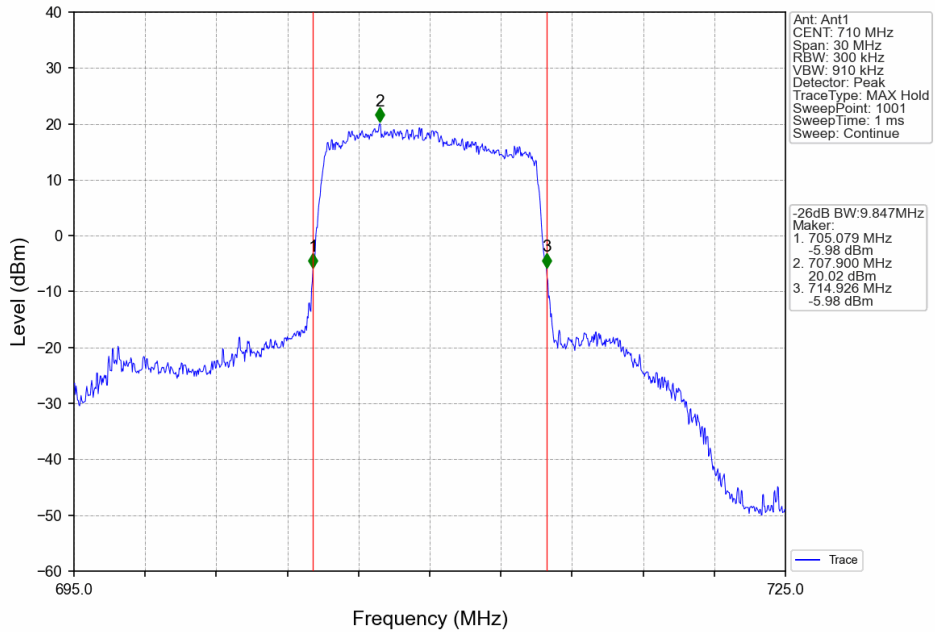
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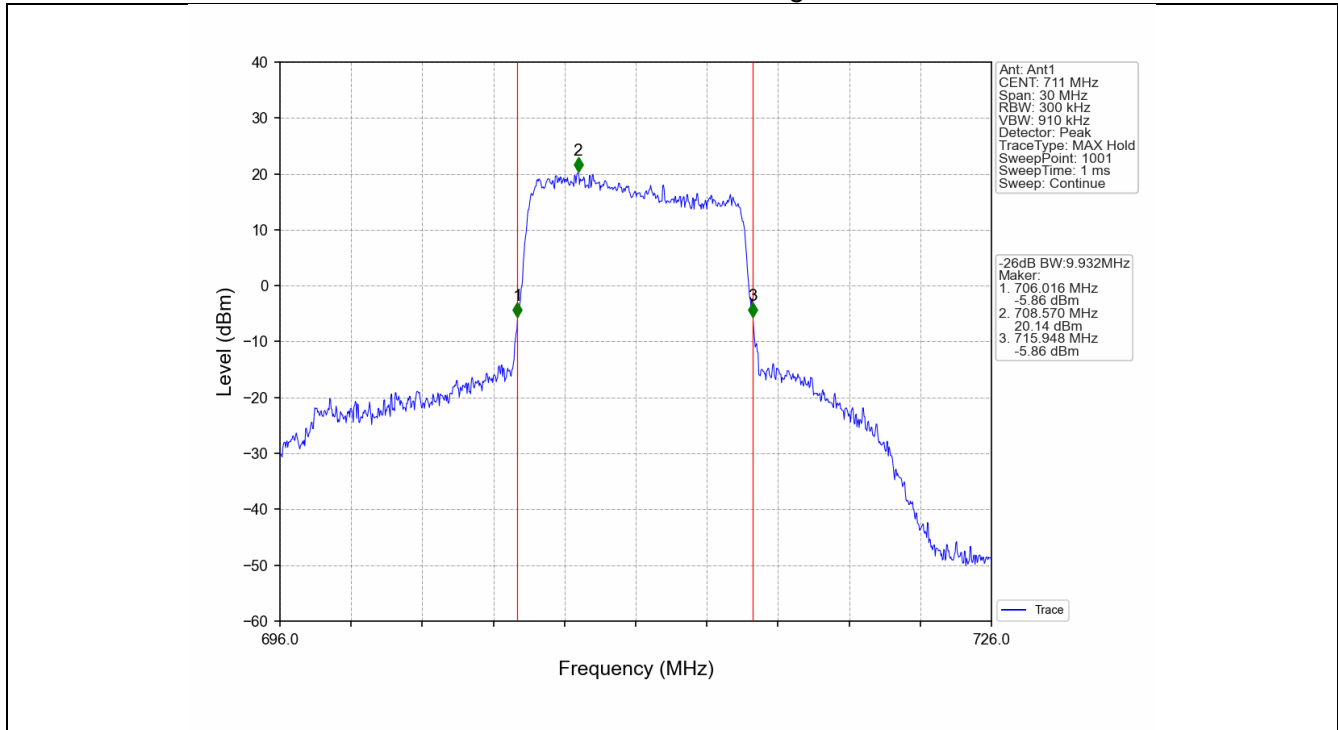


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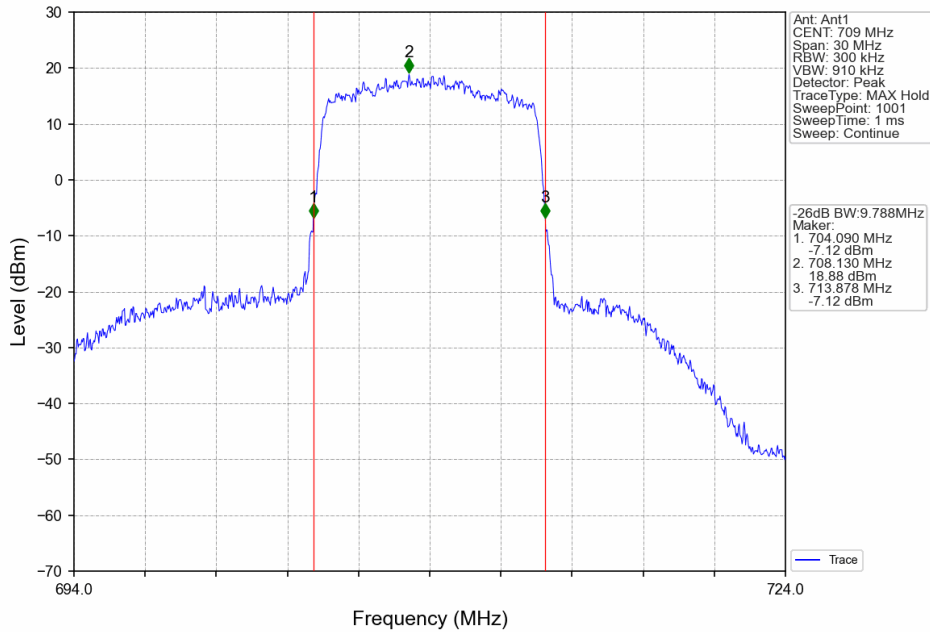
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Band17\_10MHz\_16QAM\_MCH\_710MHz\_RB\_50\_0\_NTNV



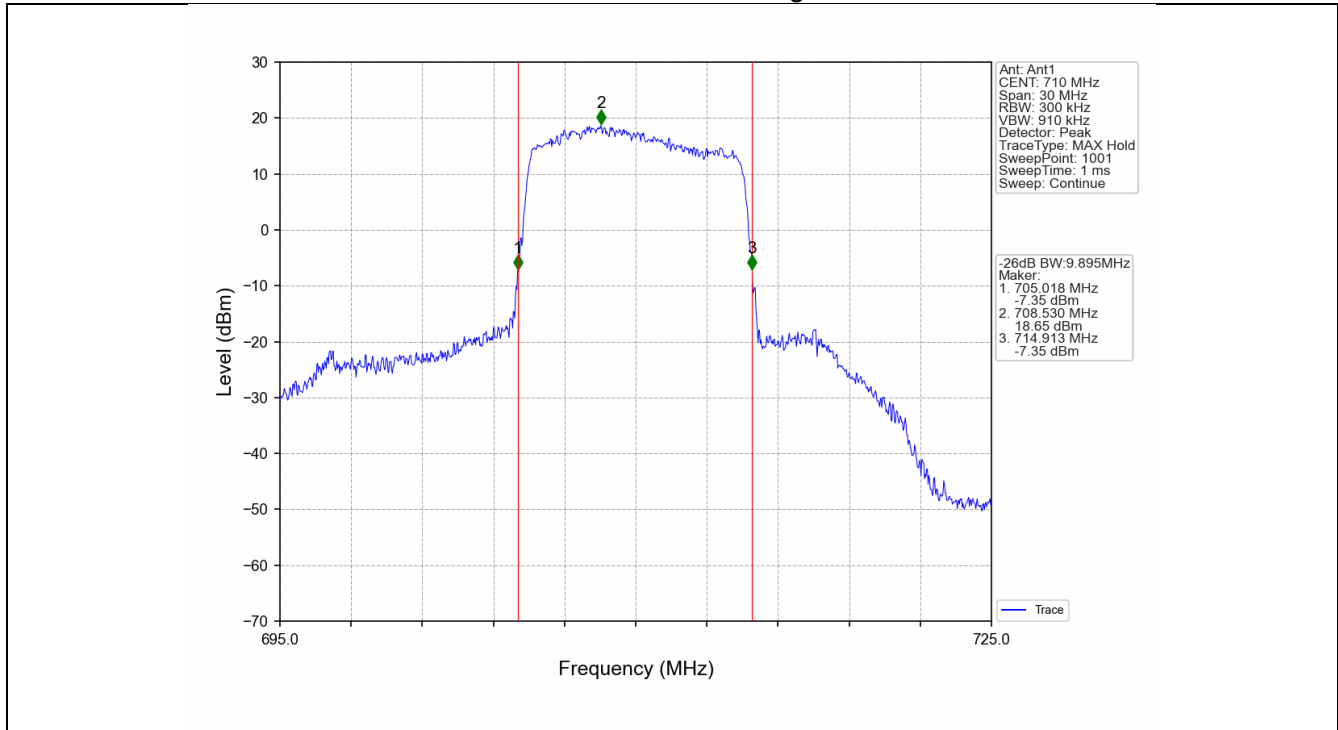
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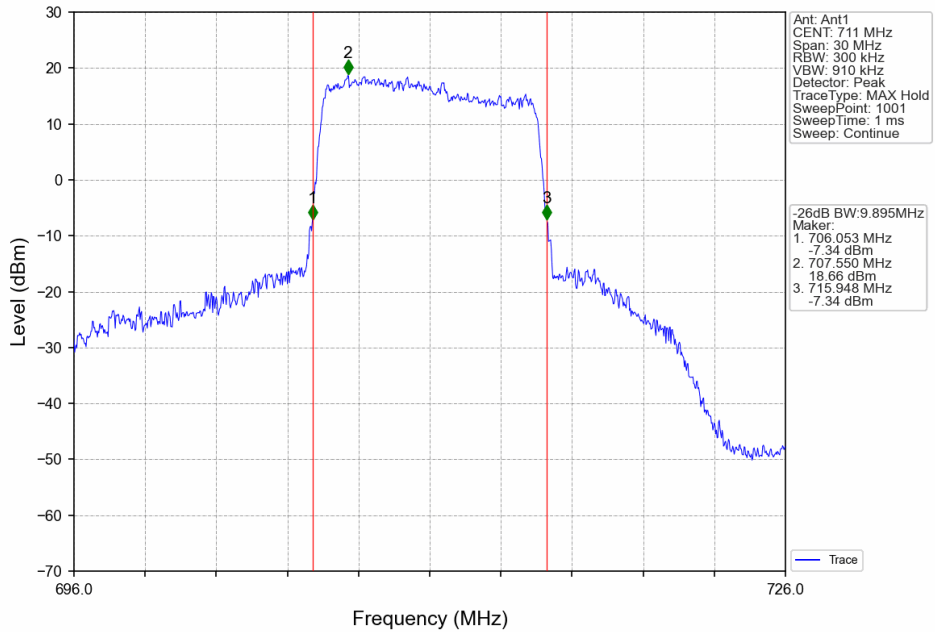


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Band17\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



Band17\_10MHz\_64QAM\_LCH\_709MHz\_RB\_50\_0\_NTNV

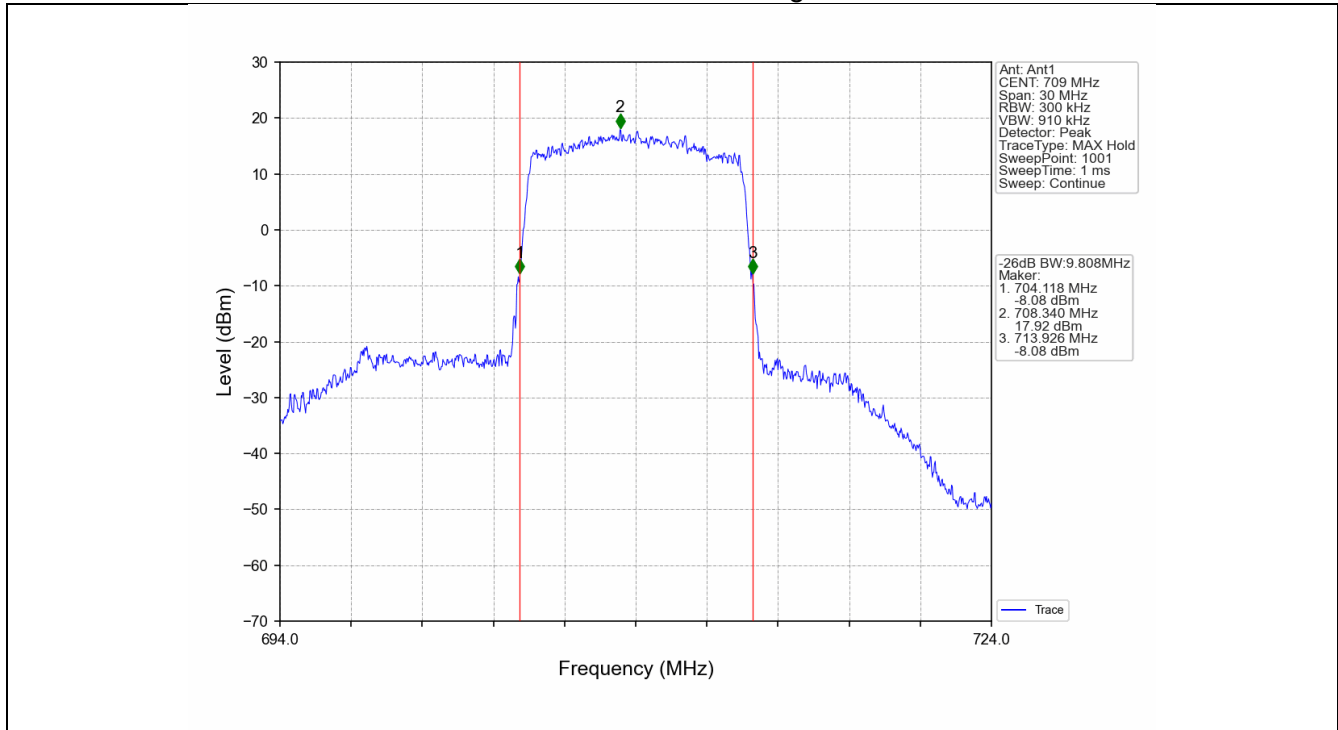


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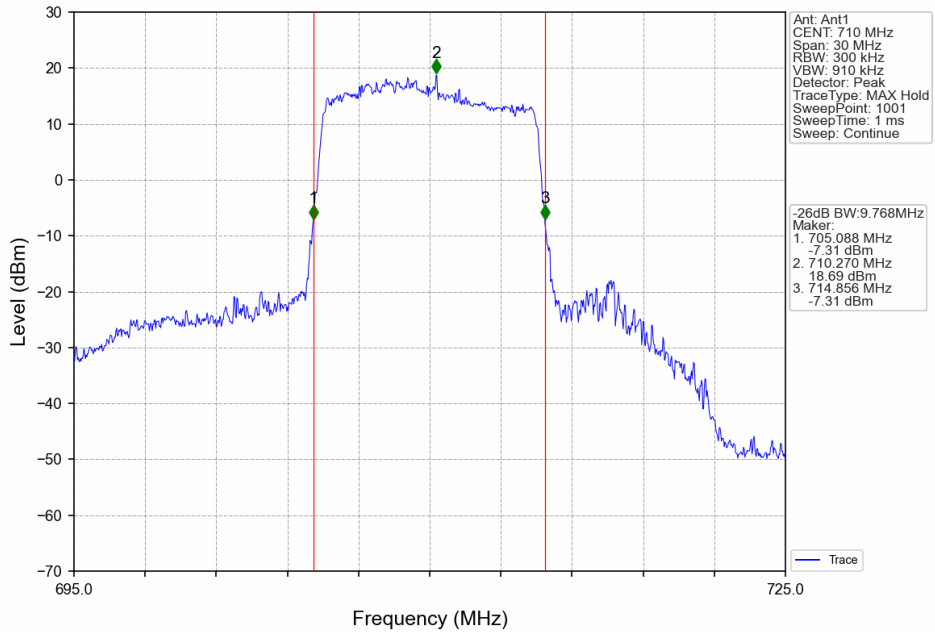
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Band17\_10MHz\_64QAM\_MCH\_710MHz\_RB\_50\_0\_NTNV



Band17\_10MHz\_64QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



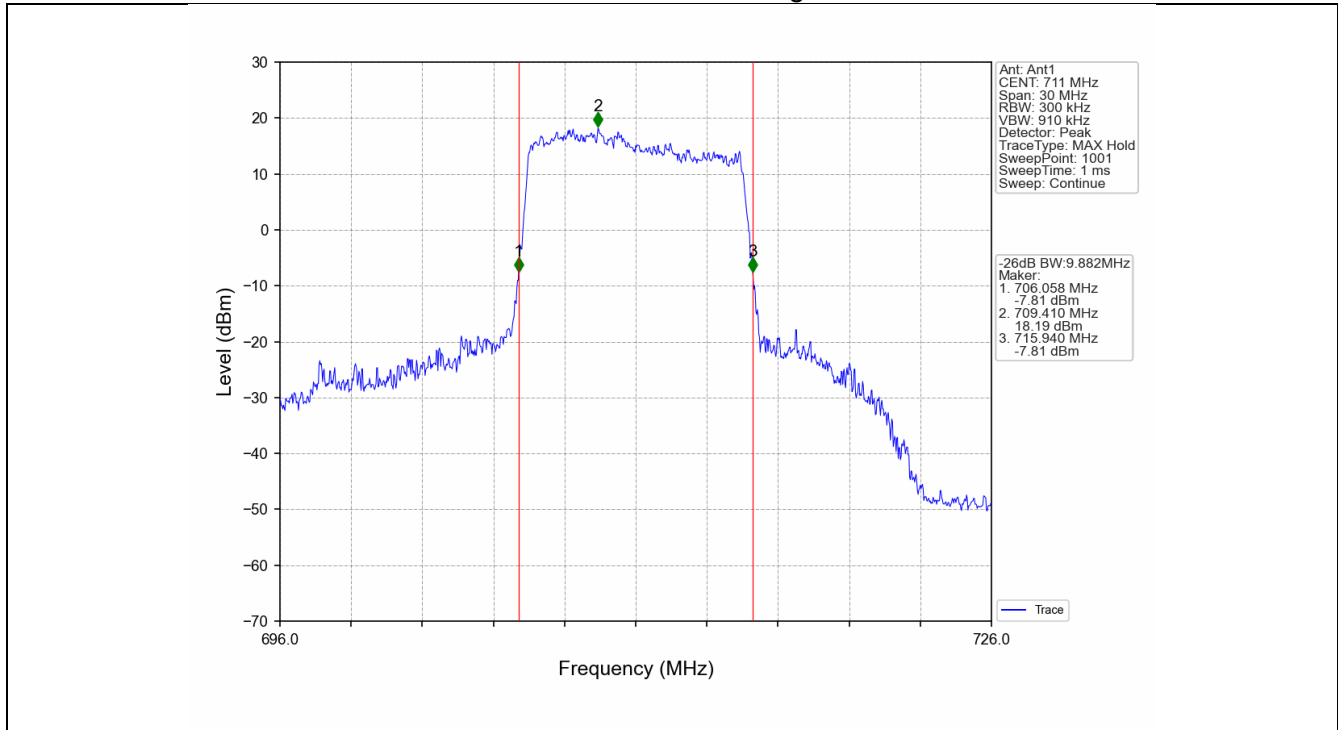
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## 4. Peak-Average Ratio

### 4.1 B17\_5MHz

#### 4.1.1 Test Result

| Band: 17 / Bandwidth: 5MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 706.5           | 25            | 0      | 5.21                    | <=13  | Pass    |
|                                   | 710             | 25            | 0      | 5.21                    | <=13  | Pass    |
|                                   | 713.5           | 25            | 0      | 5.97                    | <=13  | Pass    |
| 16QAM                             | 706.5           | 25            | 0      | 5.89                    | <=13  | Pass    |
|                                   | 710             | 25            | 0      | 5.94                    | <=13  | Pass    |
|                                   | 713.5           | 25            | 0      | 6.68                    | <=13  | Pass    |
| 64QAM                             | 706.5           | 25            | 0      | 6.24                    | <=13  | Pass    |
|                                   | 710             | 25            | 0      | 6.27                    | <=13  | Pass    |
|                                   | 713.5           | 25            | 0      | 6.91                    | <=13  | Pass    |

### 4.2 B17\_10MHz

#### 4.2.1 Test Result

| Band: 17 / Bandwidth: 10MHz / NTNV |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 709             | 50            | 0      | 5.12                    | <=13  | Pass    |
|                                    | 710             | 50            | 0      | 5.19                    | <=13  | Pass    |
|                                    | 711             | 50            | 0      | 5.27                    | <=13  | Pass    |
| 16QAM                              | 709             | 50            | 0      | 5.96                    | <=13  | Pass    |
|                                    | 710             | 50            | 0      | 6.02                    | <=13  | Pass    |
|                                    | 711             | 50            | 0      | 6.09                    | <=13  | Pass    |
| 64QAM                              | 709             | 50            | 0      | 6.24                    | <=13  | Pass    |
|                                    | 710             | 50            | 0      | 6.29                    | <=13  | Pass    |
|                                    | 711             | 50            | 0      | 6.38                    | <=13  | Pass    |



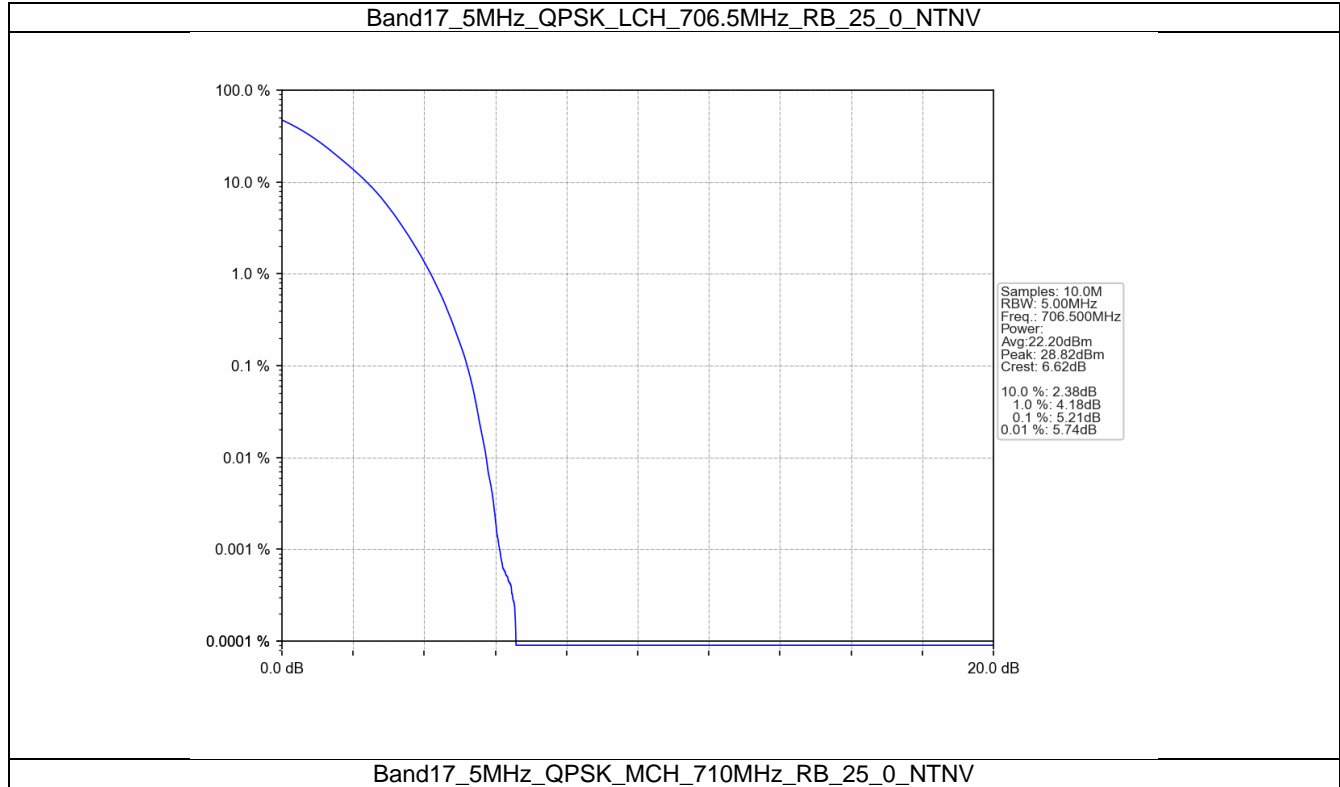
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4.1 B17\_5MHz

4.1.2 Test Graph

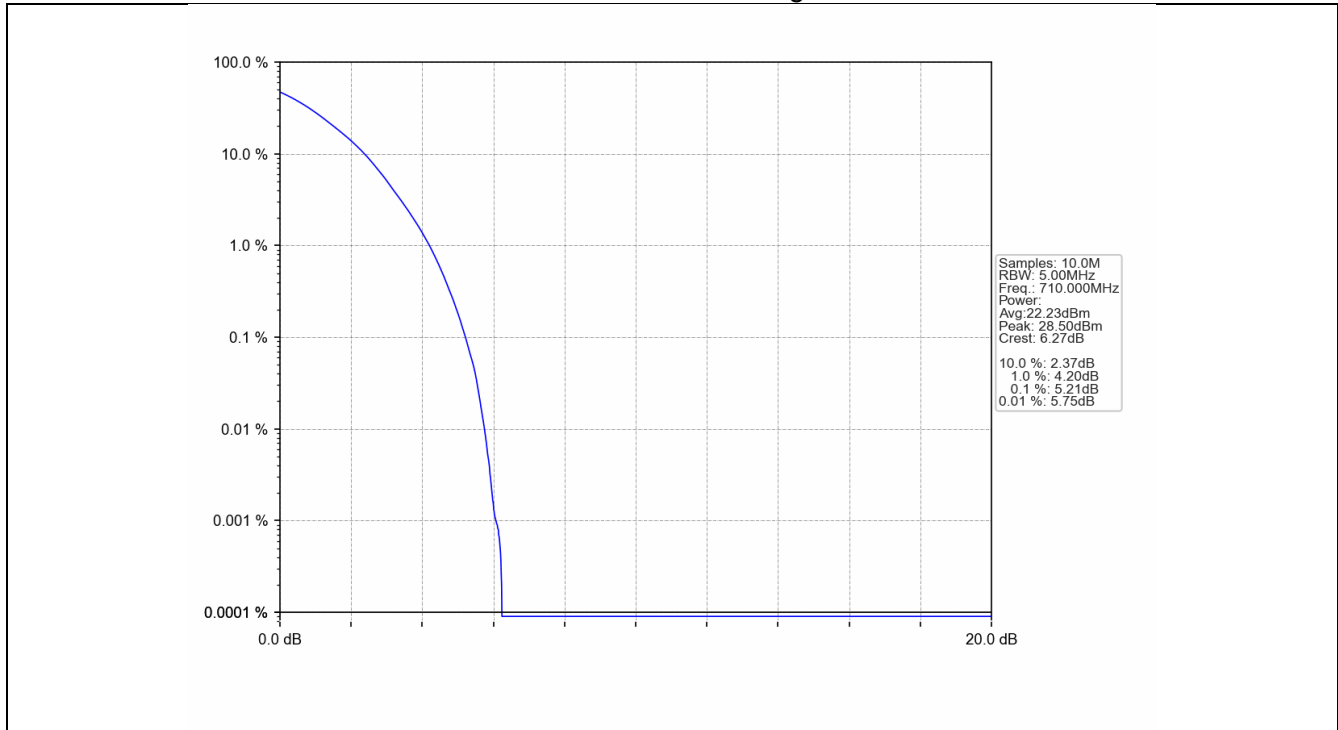


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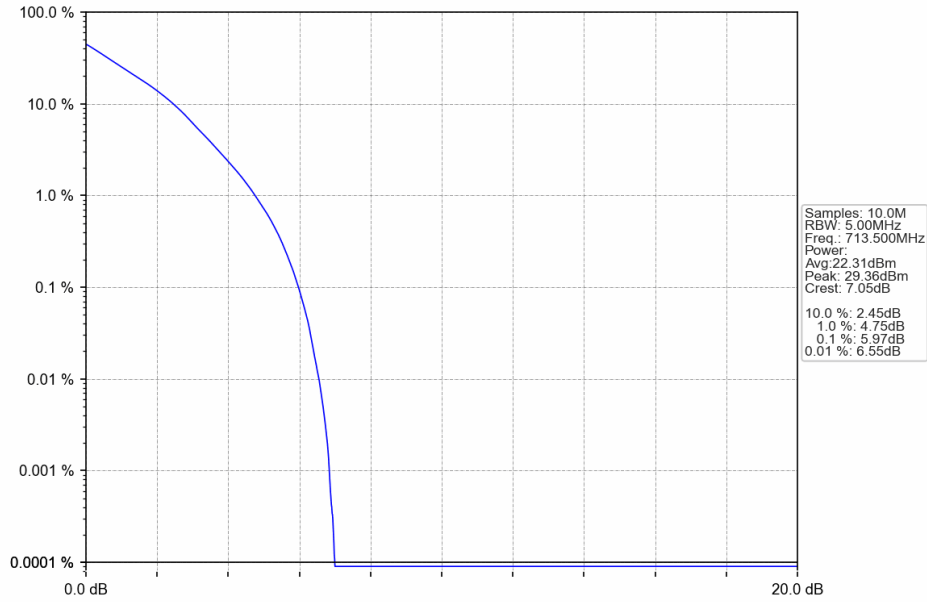
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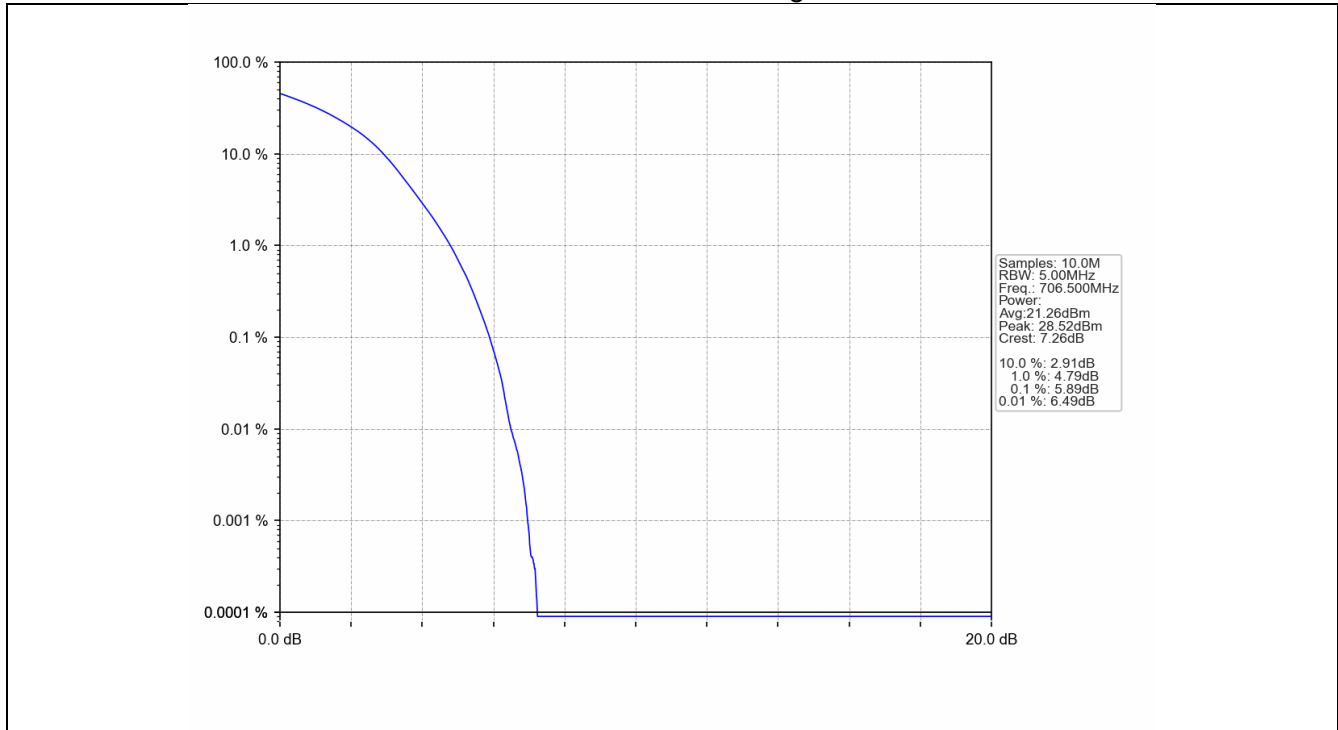
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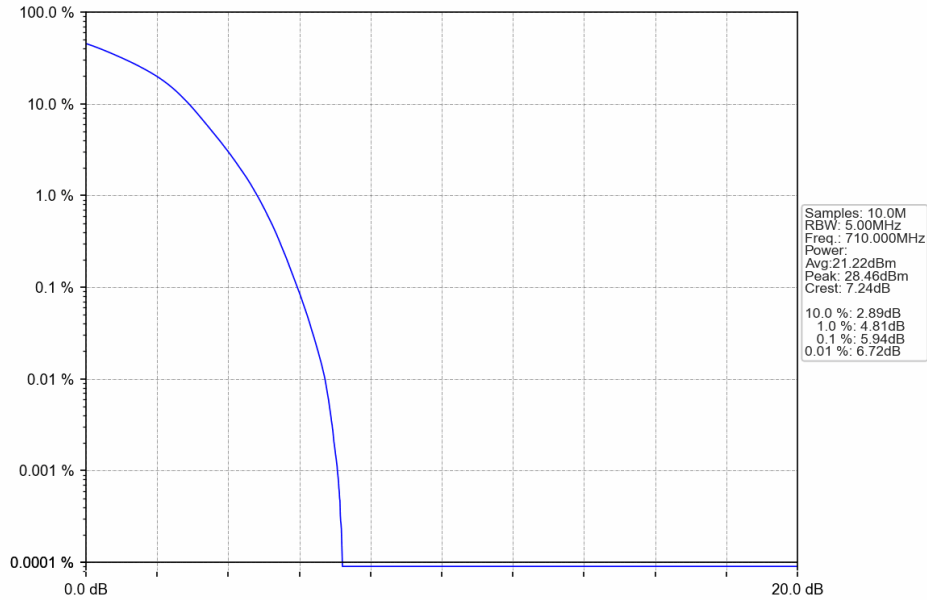


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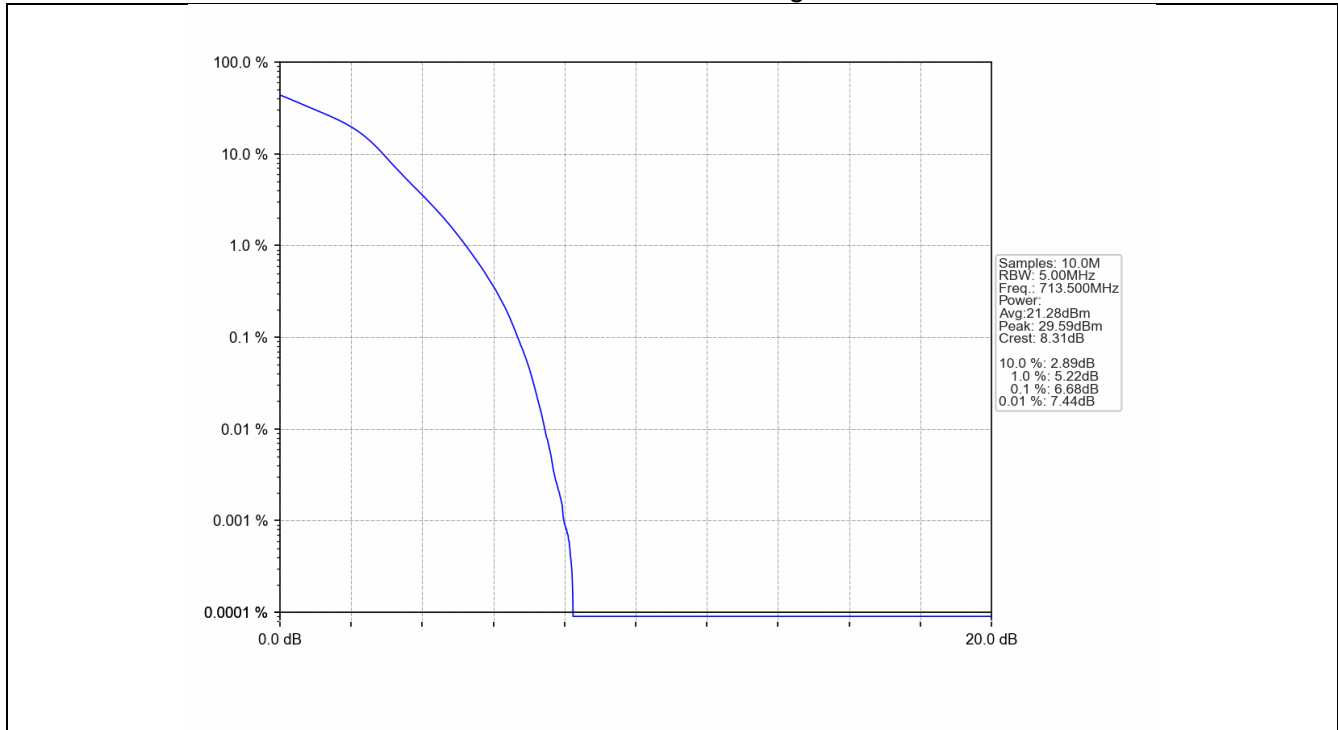


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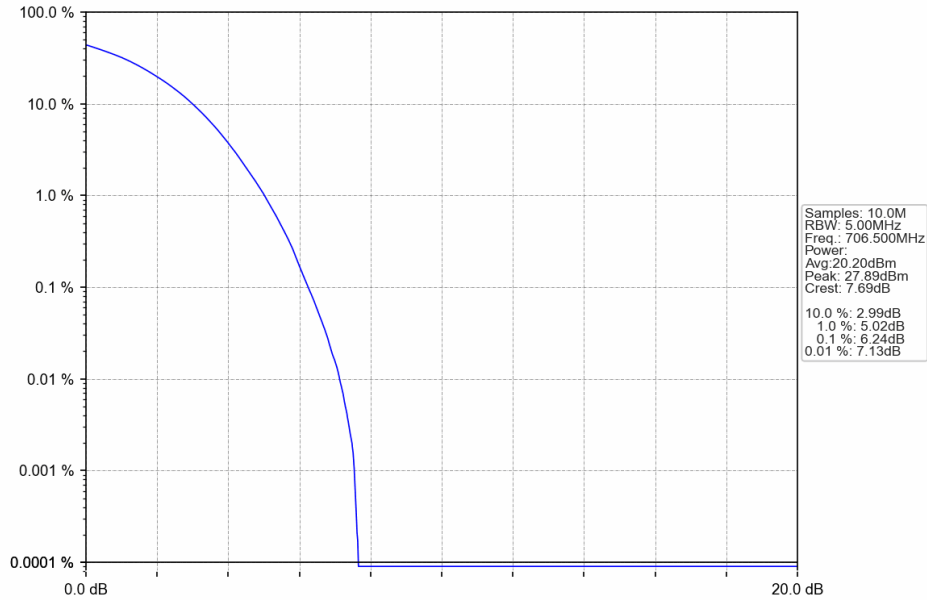


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Band17\_5MHz\_64QAM\_LCH\_706.5MHz\_RB\_25\_0\_NTNV



Band17\_5MHz\_64QAM\_MCH\_710MHz\_RB\_25\_0\_NTNV



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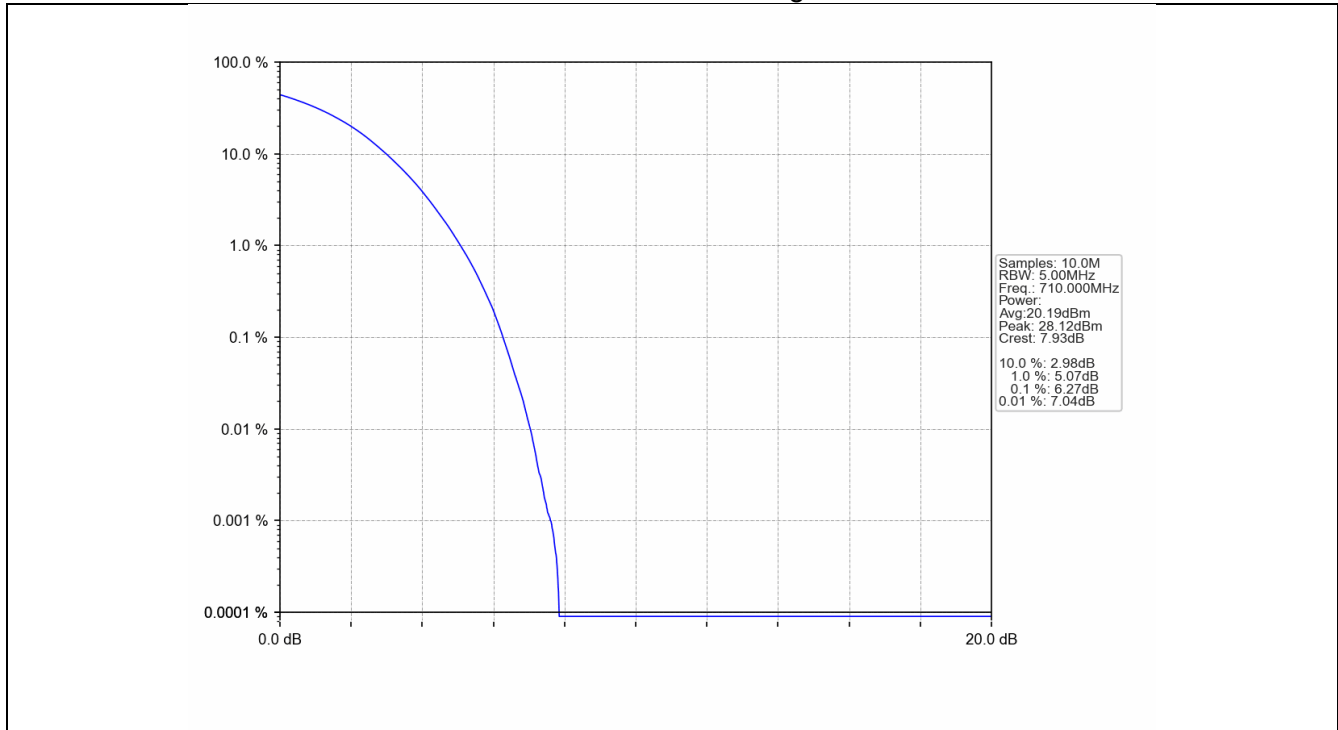
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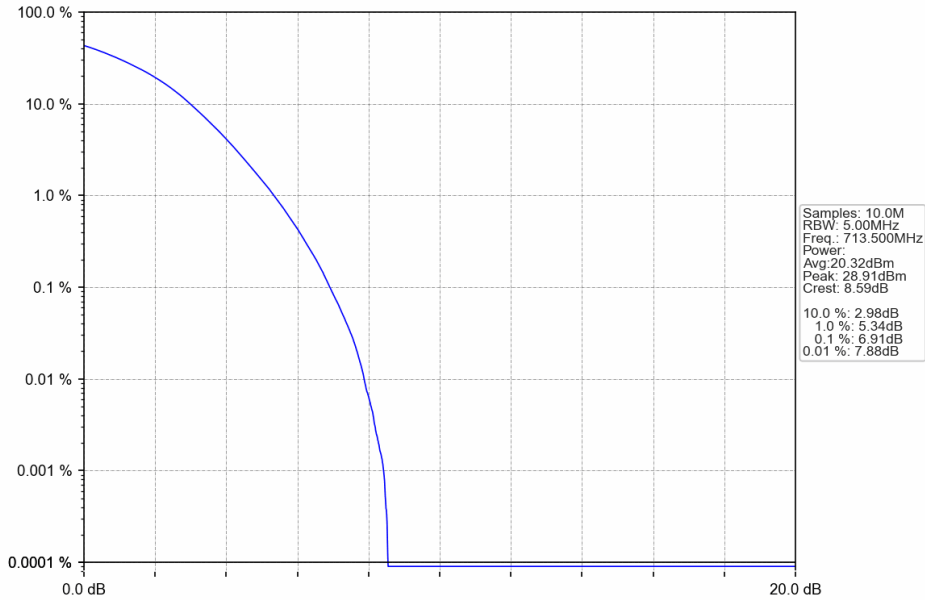


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Band17\_5MHz\_64QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



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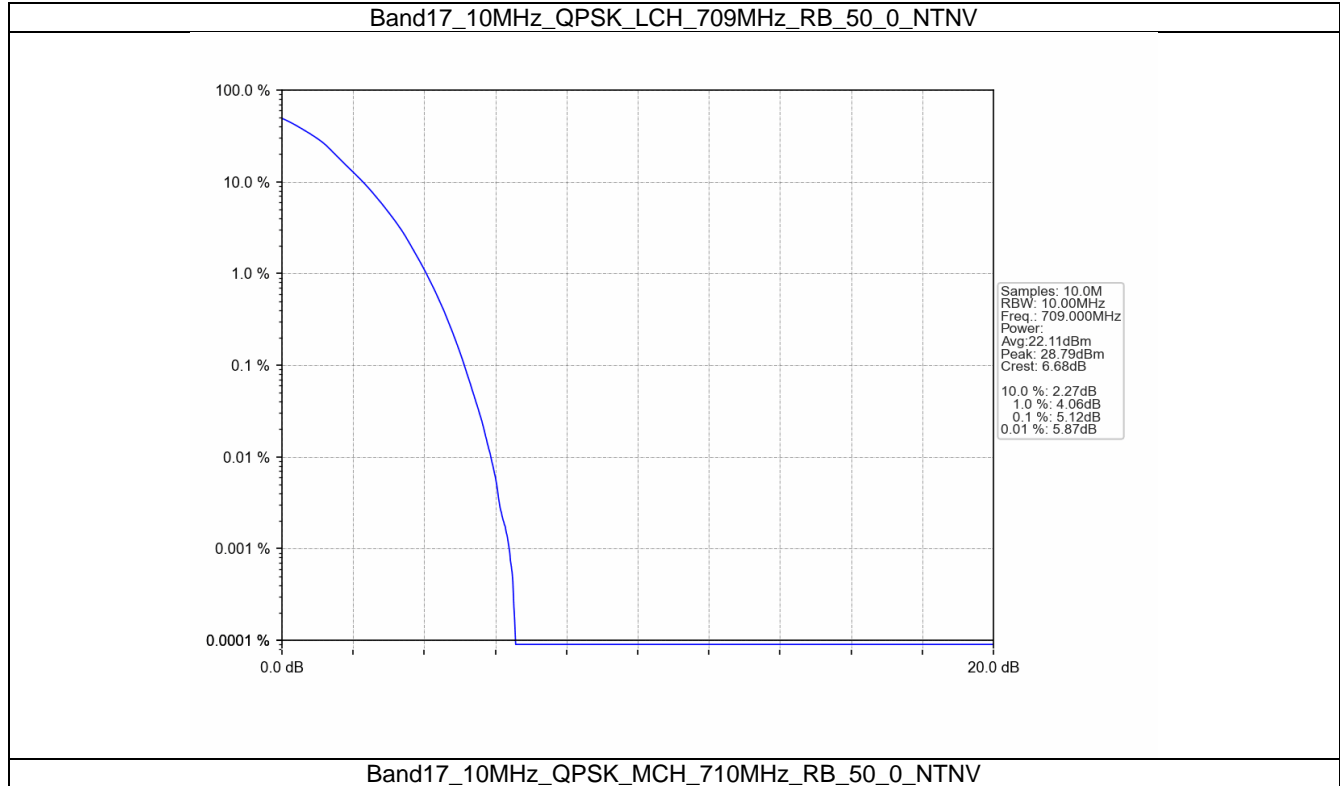
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4.2 B17\_10MHz

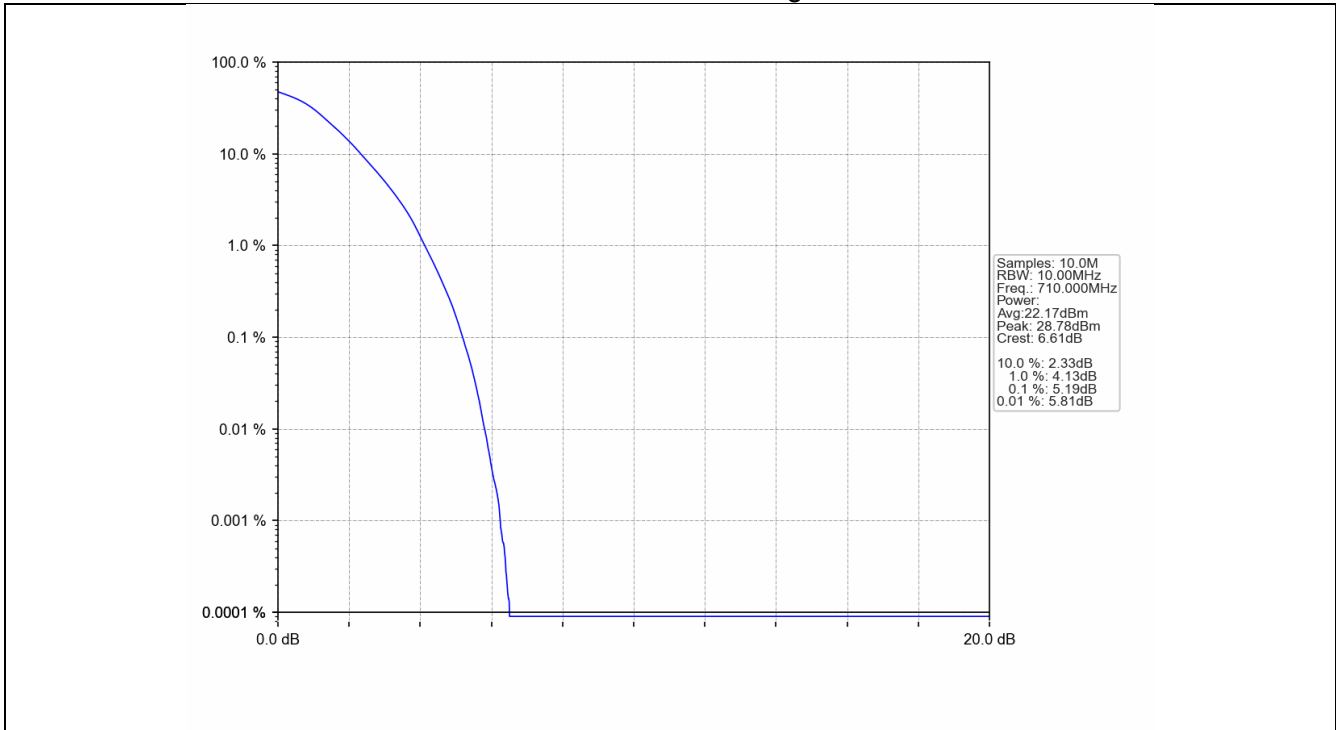
4.2.2 Test Graph



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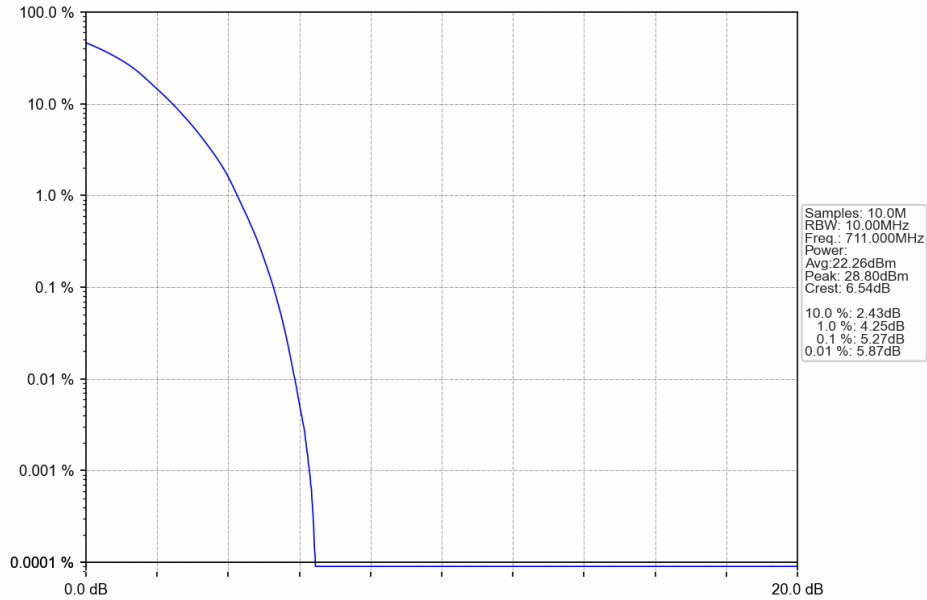


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Band17\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



Band17\_10MHz\_16QAM\_LCH\_709MHz\_RB\_50\_0\_NTNV



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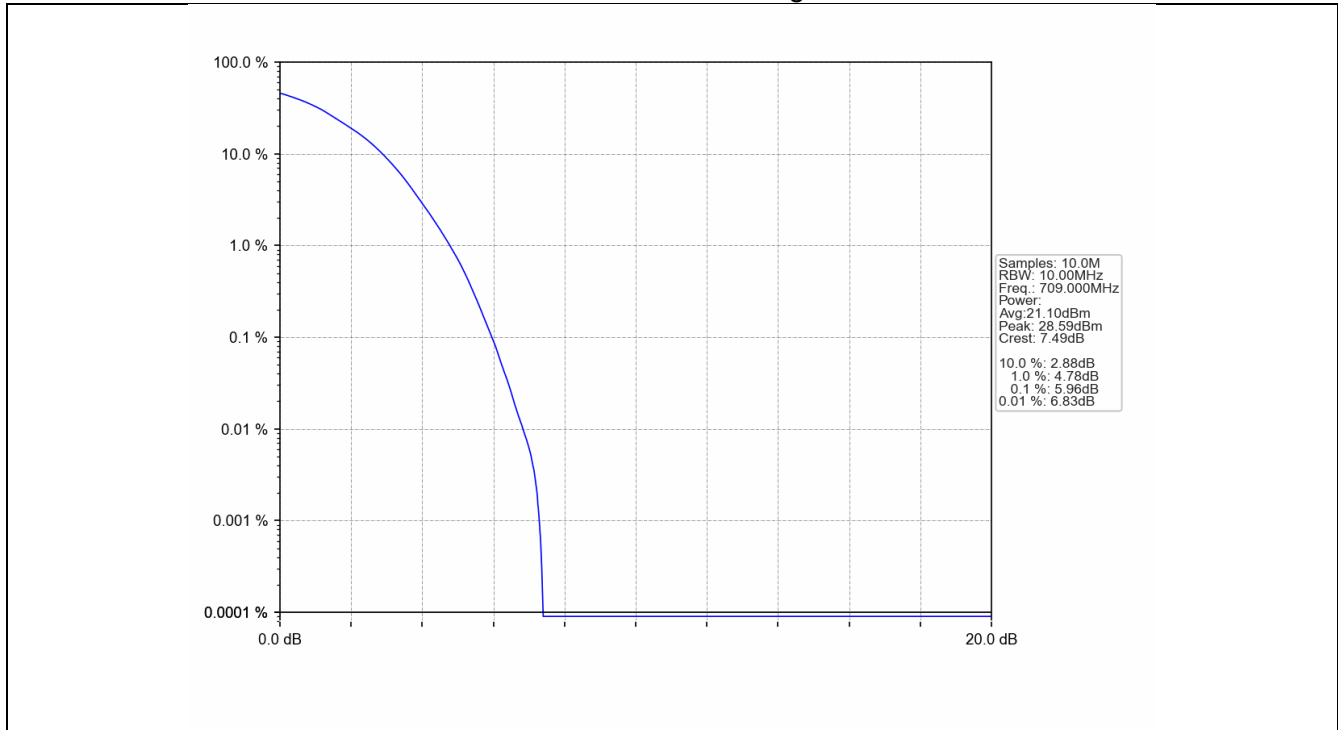
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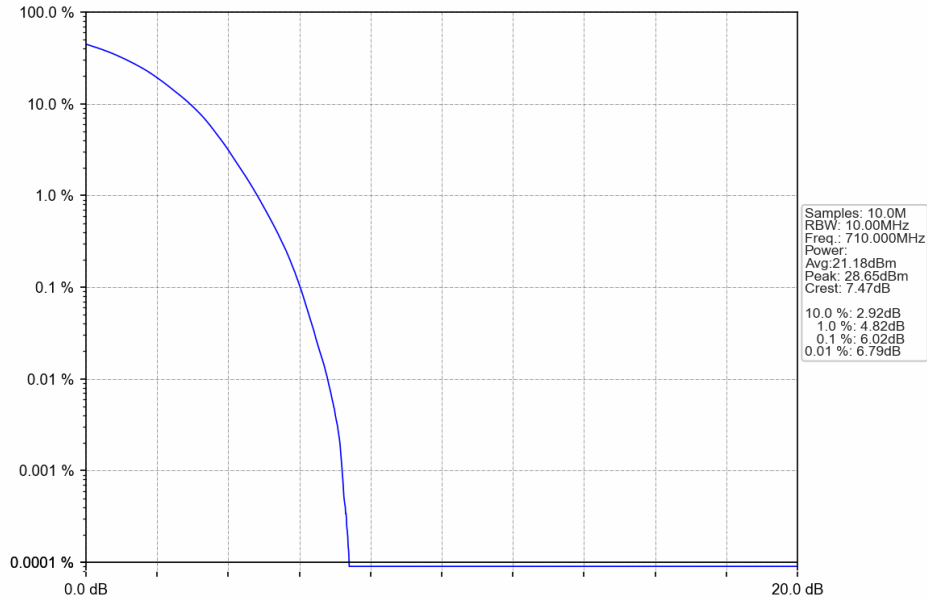


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Band17\_10MHz\_16QAM\_MCH\_710MHz\_RB\_50\_0\_NTNV



Band17\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



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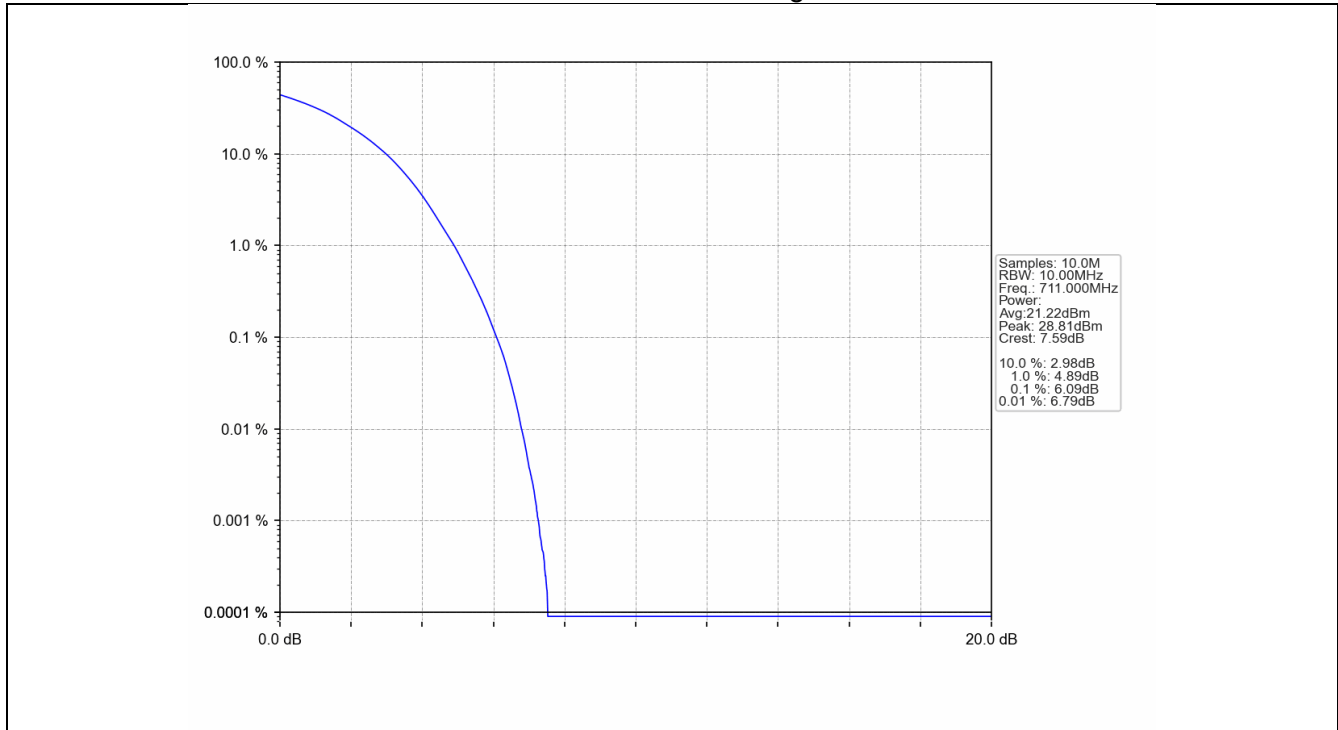
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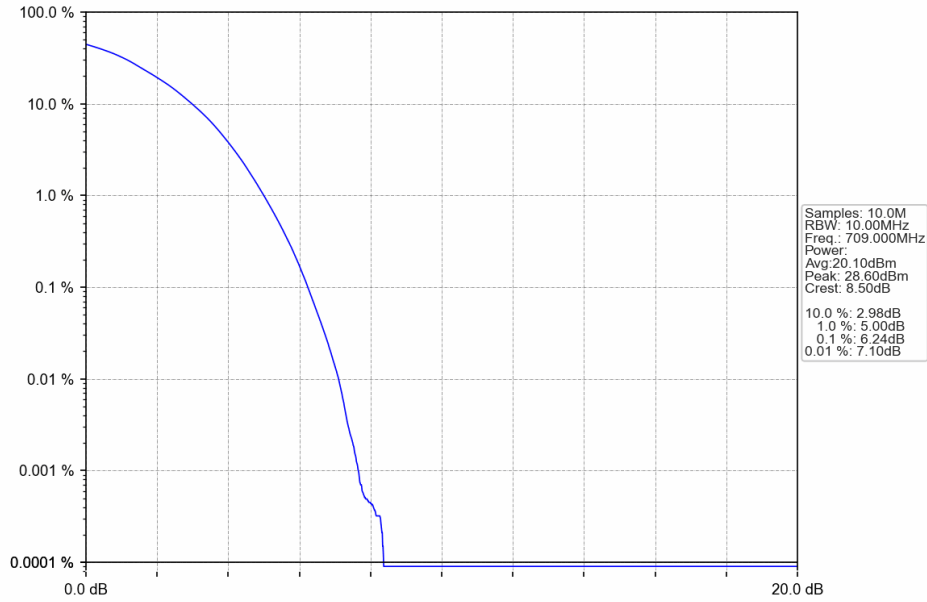
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Band17\_10MHz\_64QAM\_LCH\_709MHz\_RB\_50\_0\_NTNV



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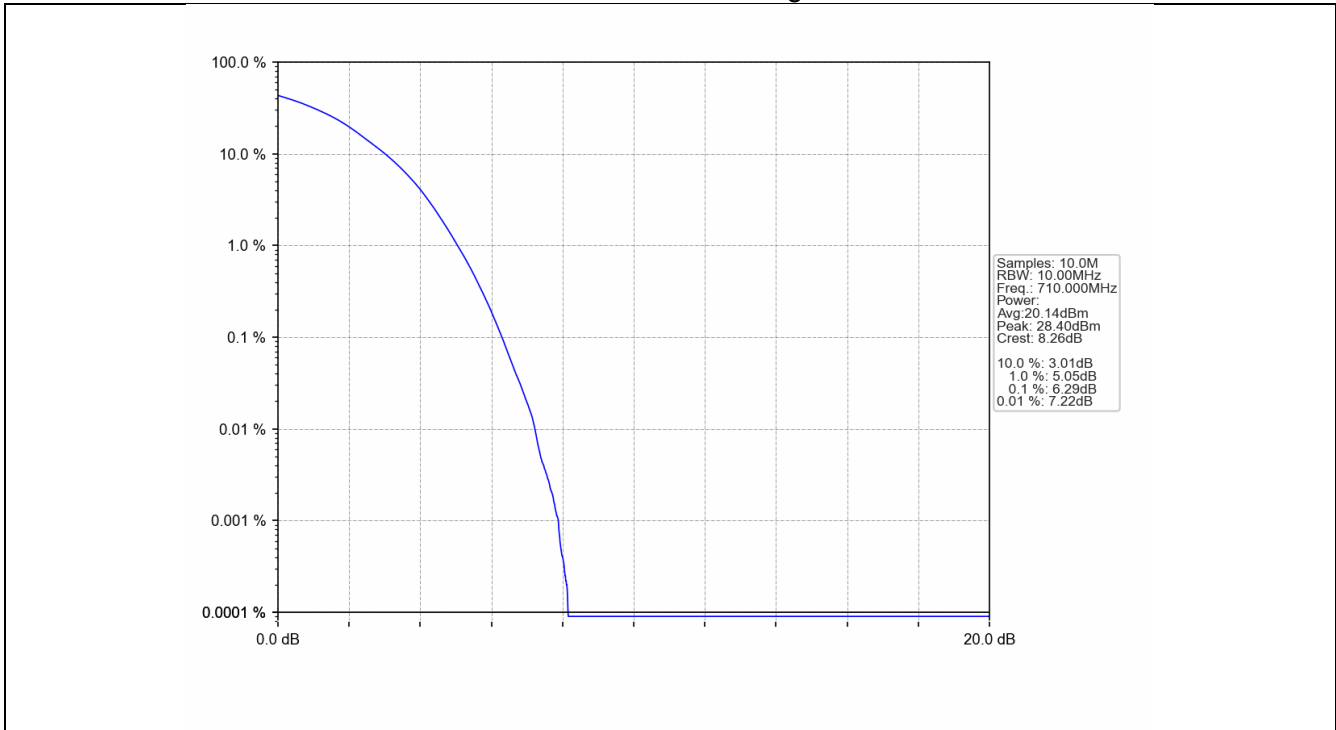


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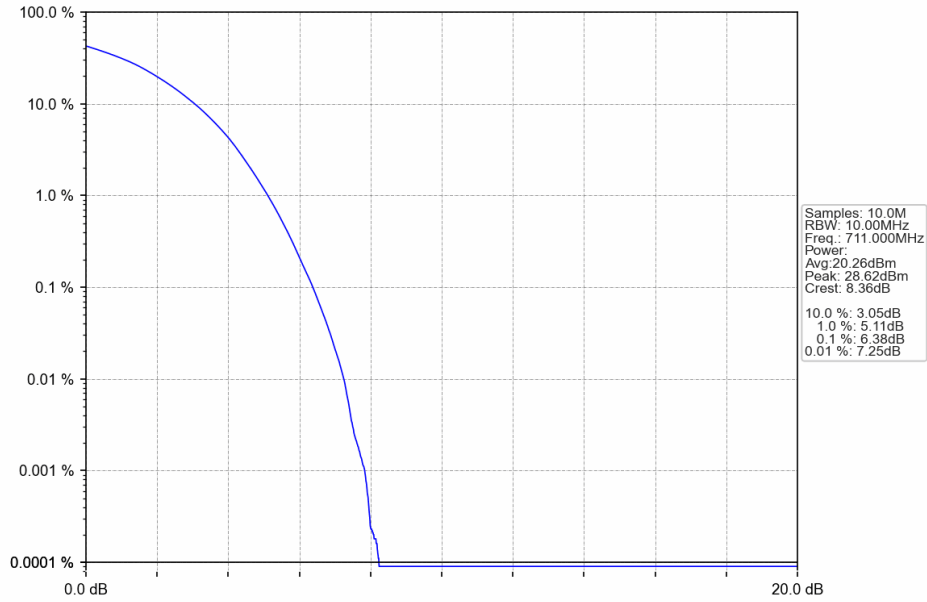


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Band17\_10MHz\_64QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



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## 5. Spurious Emission & Band Edges

### 5.1 B17\_5MHz

#### 5.1.1 Test Result

| Band: 17 / Bandwidth: 5MHz / NTN |                 |               |        |                     |       |         |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                  |                 | Size          | Offset | Result              | Limit |         |
| QPSK                             | 706.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |
|                                  | 710             | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  | 713.5           | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                  |                 |               | 24     | Refer To Test Graph |       | Pass    |
|                                  |                 | 25            | 0      | Refer To Test Graph |       | Pass    |

### 5.2 B17\_10MHz

#### 5.2.1 Test Result

| Band: 17 / Bandwidth: 10MHz / NTN |                 |               |        |                     |       |         |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       | Verdict |
|                                   |                 | Size          | Offset | Result              | Limit |         |
| QPSK                              | 709             | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 | 50            | 0      | Refer To Test Graph |       | Pass    |
|                                   | 710             | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   | 711             | 1             | 0      | Refer To Test Graph |       | Pass    |
|                                   |                 |               | 49     | Refer To Test Graph |       | Pass    |
|                                   |                 | 50            | 0      | Refer To Test Graph |       | Pass    |



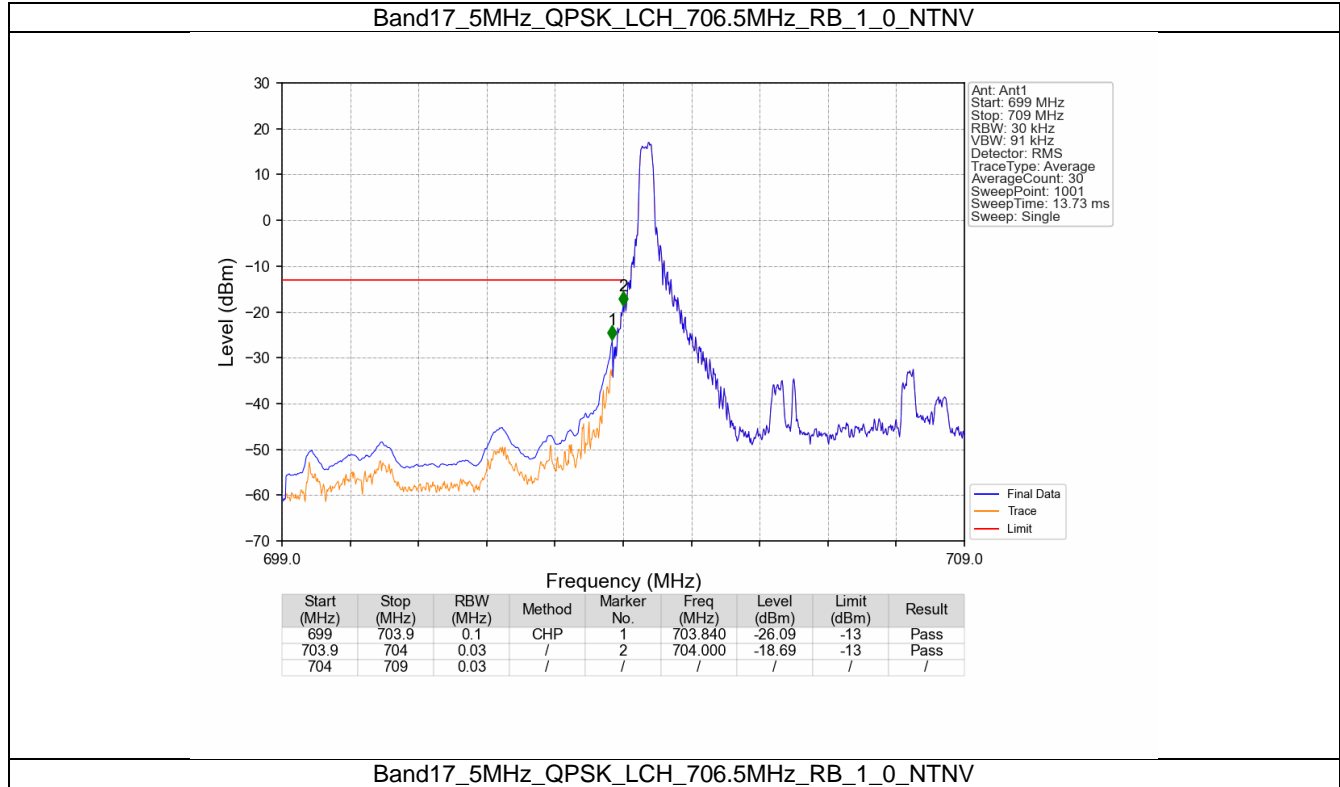
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5.1 B17\_5MHz

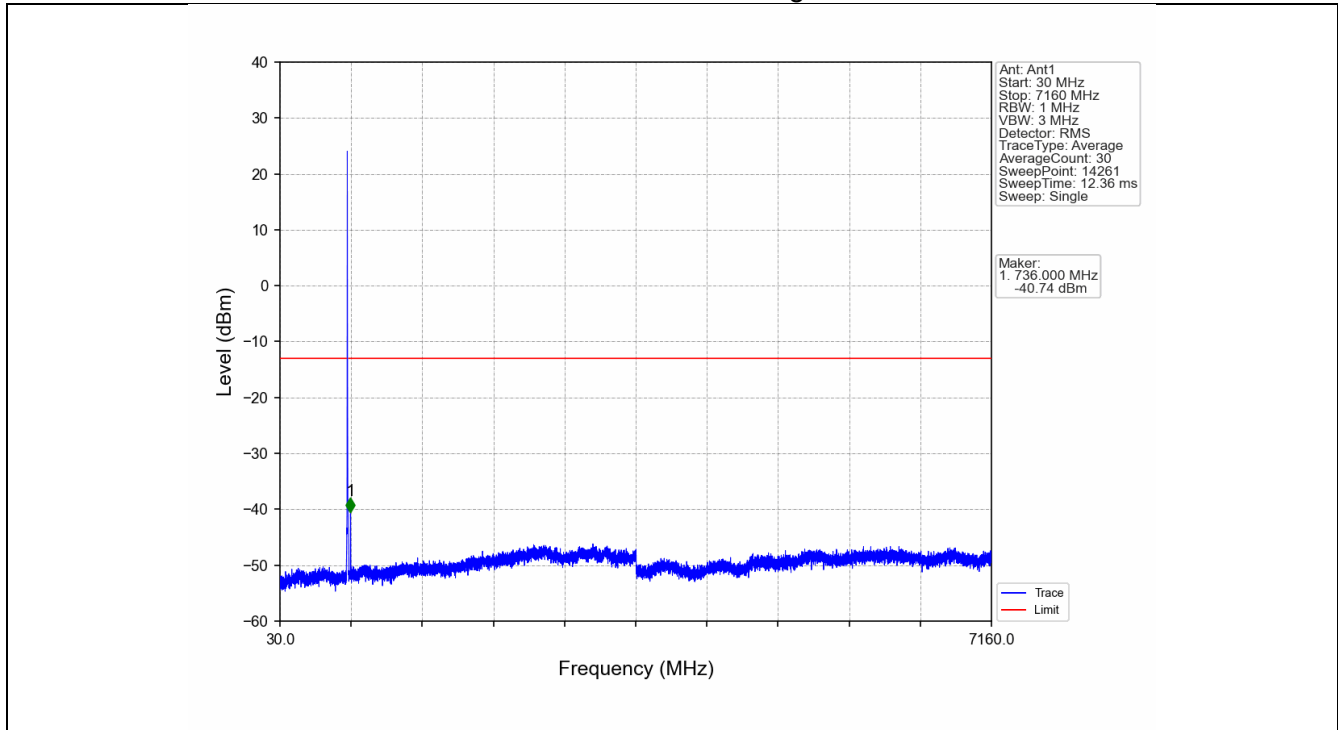
5.1.2 Test Graph



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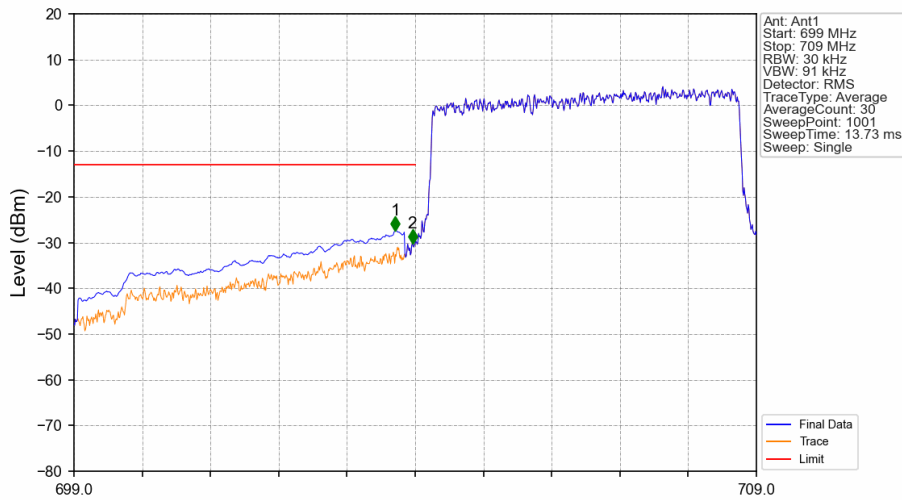
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Band17\_5MHz\_QPSK\_LCH\_706.5MHz\_RB\_25\_0\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 699         | 703.9      | 0.1       | CHP    | 1          | 703.710    | -27.36      | -13         | Pass   |
| 703.9       | 704        | 0.03      | /      | 2          | 703.960    | -30.19      | -13         | Pass   |
| 704         | 709        | 0.03      | /      | /          | /          | /           | /           | /      |

Band17\_5MHz\_QPSK\_MCH\_710MHz\_RB\_1\_0\_NTNV

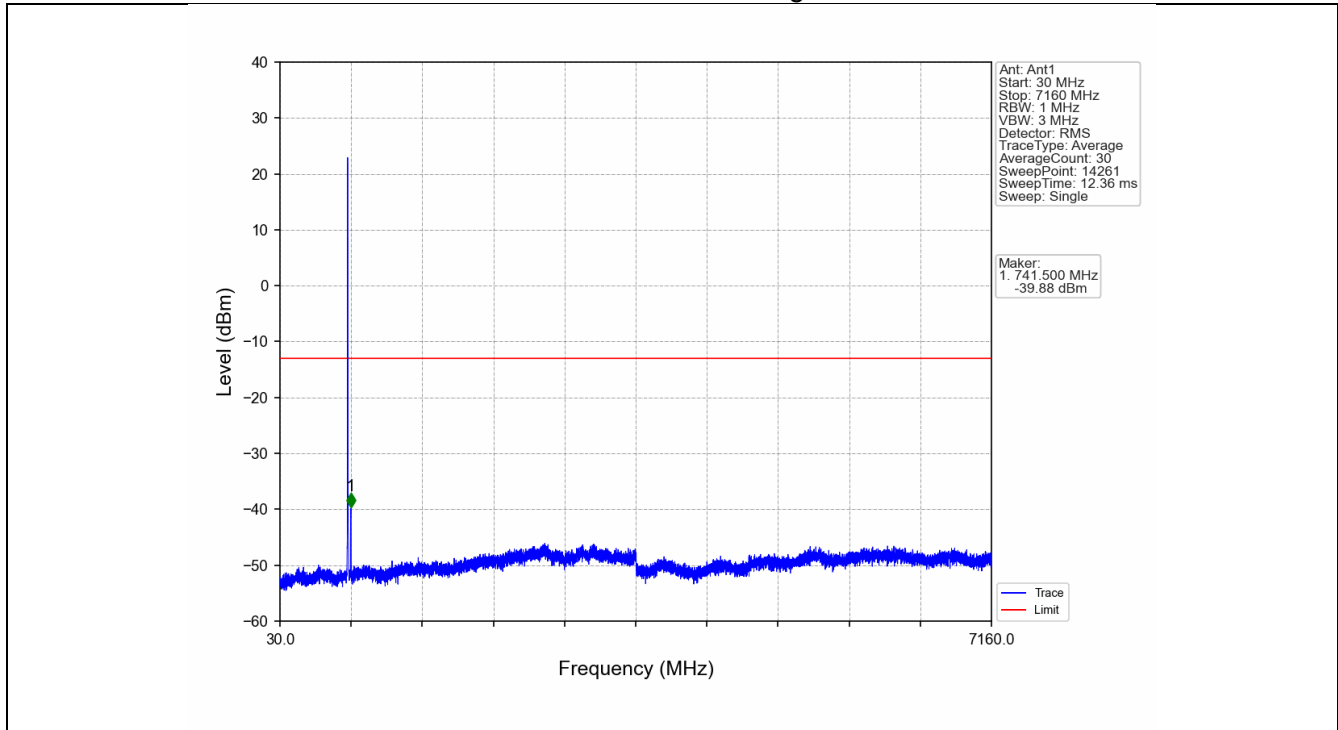


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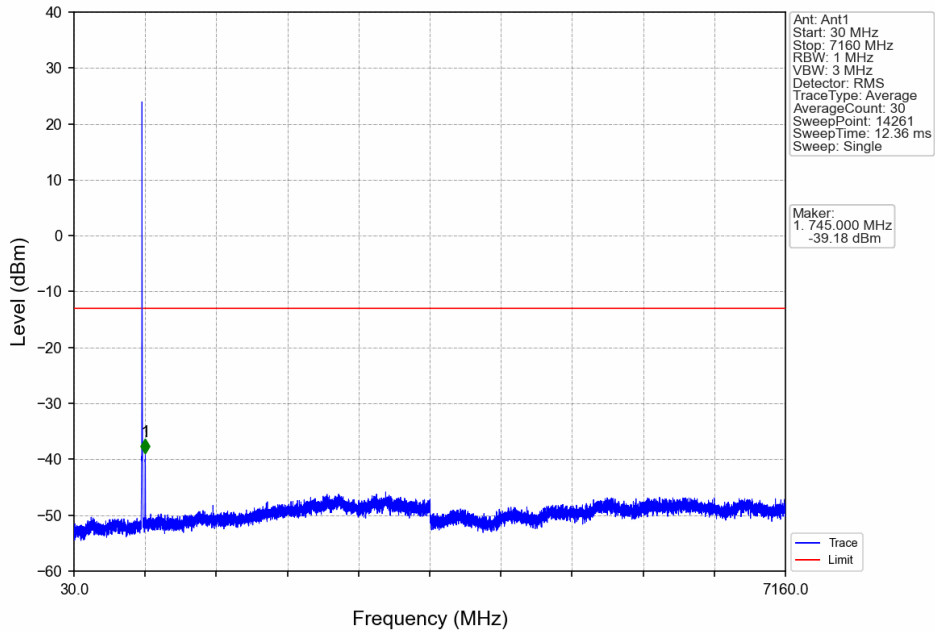


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Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_0\_NTNV



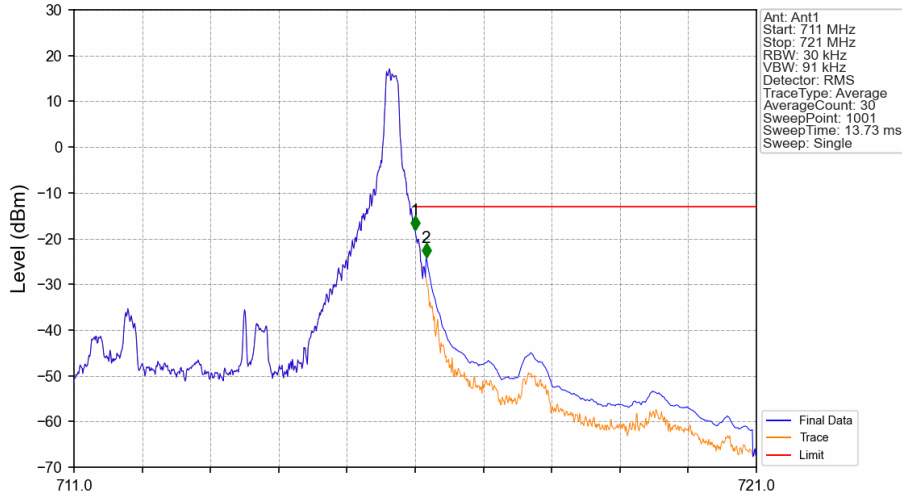
Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_24\_NTNV



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Ant: Ant1  
 Start: 711 MHz  
 Stop: 721 MHz  
 RBW: 30 kHz  
 VBW: 91 kHz  
 Detector: RMS  
 Trace Type: Average  
 Average Count: 30  
 Sweep Point: 1001  
 Sweep Time: 13.73 ms  
 Sweep: Single

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 711         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.000    | -18.17      | -13         | Pass   |
| 716.1       | 721        | 0.1       | CHP    | 2          | 716.160    | -24.18      | -13         | Pass   |

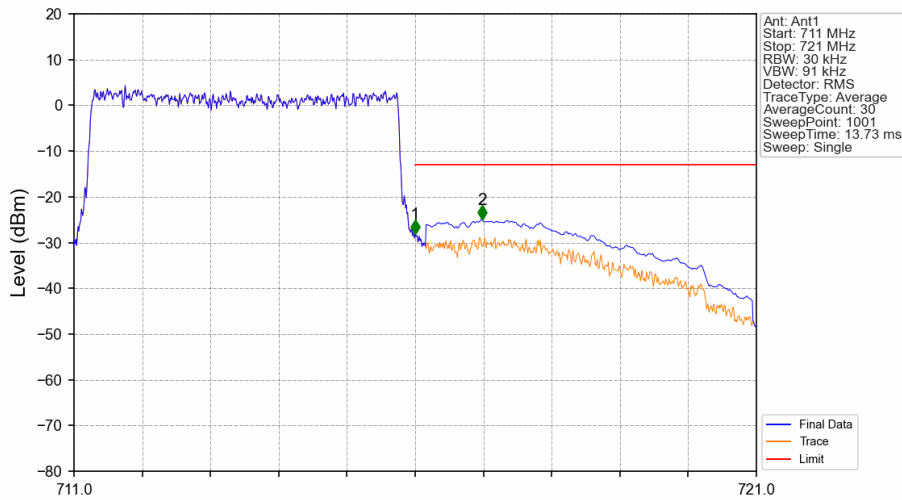


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Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 711         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.000    | -28.11      | -13         | Pass   |
| 716.1       | 721        | 0.1       | CHP    | 2          | 716.980    | -24.93      | -13         | Pass   |



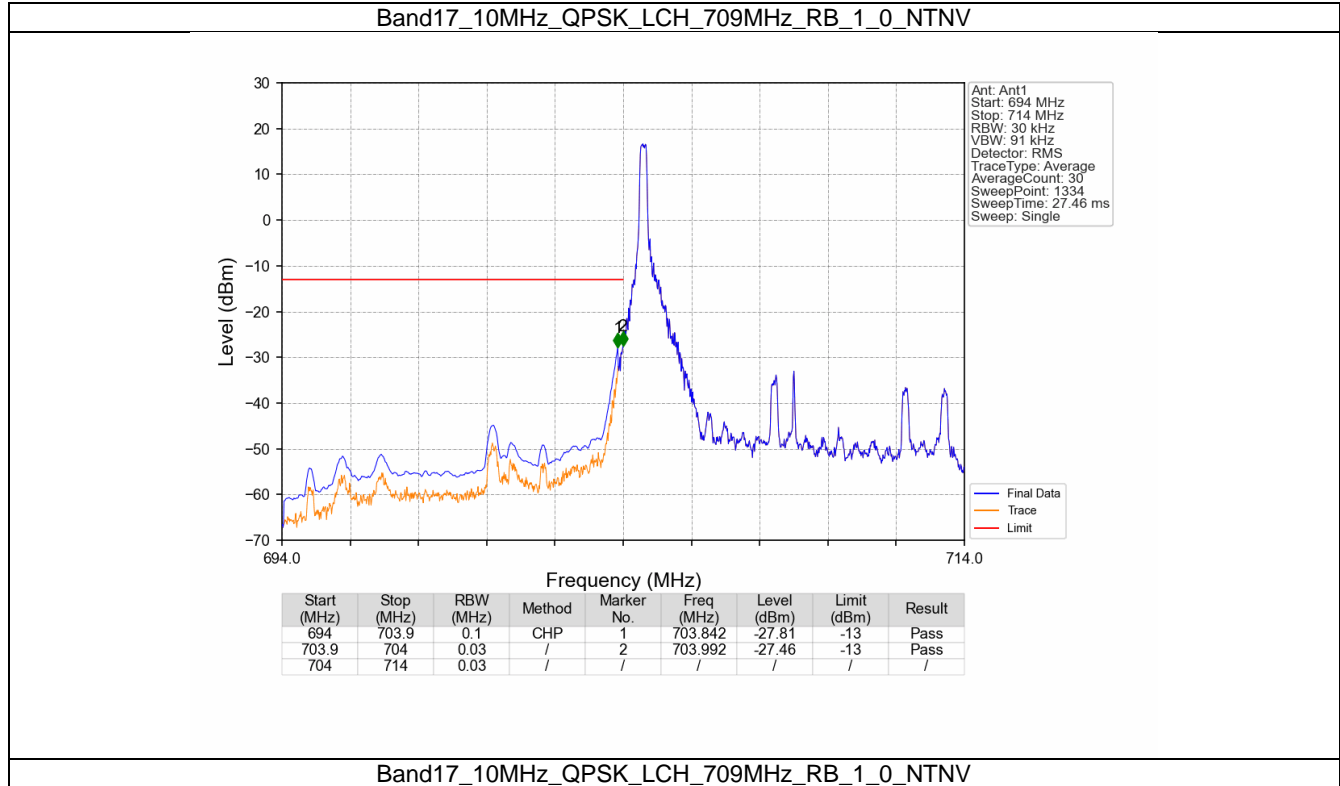
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5.2 B17\_10MHz

5.2.2 Test Graph

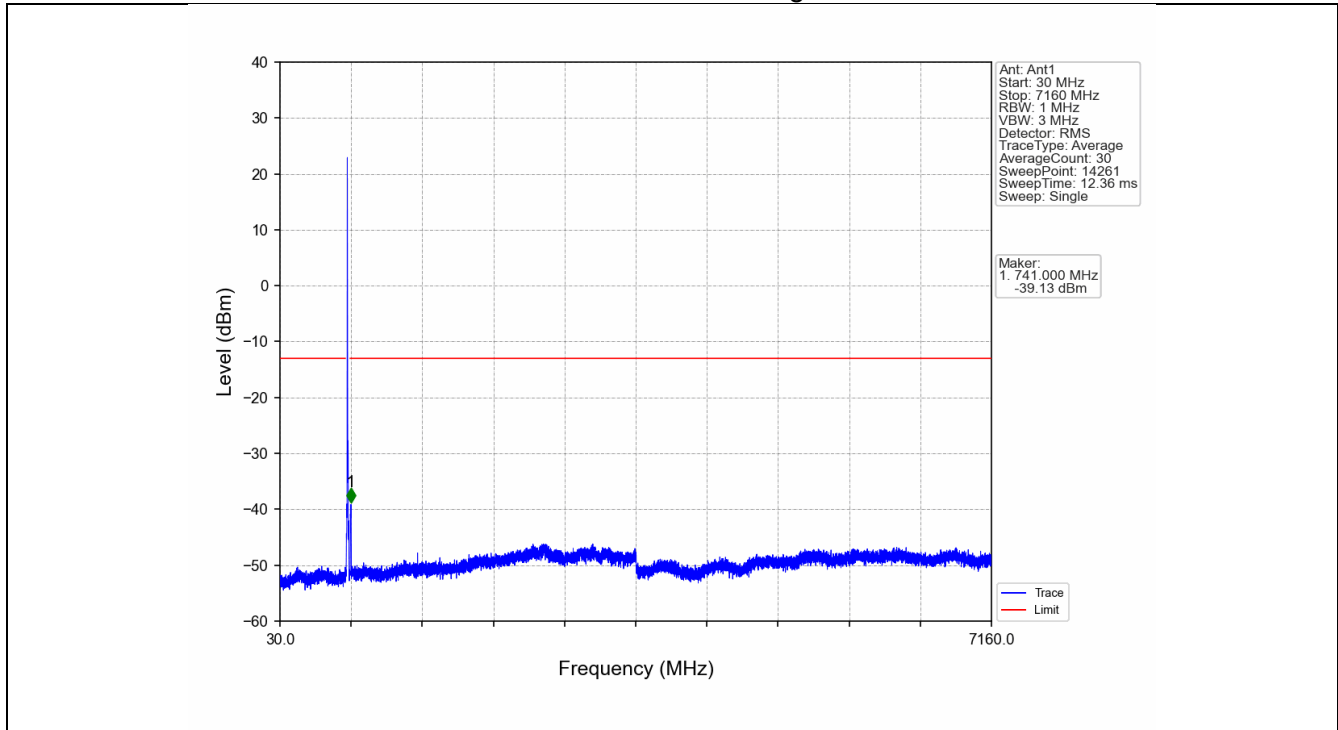


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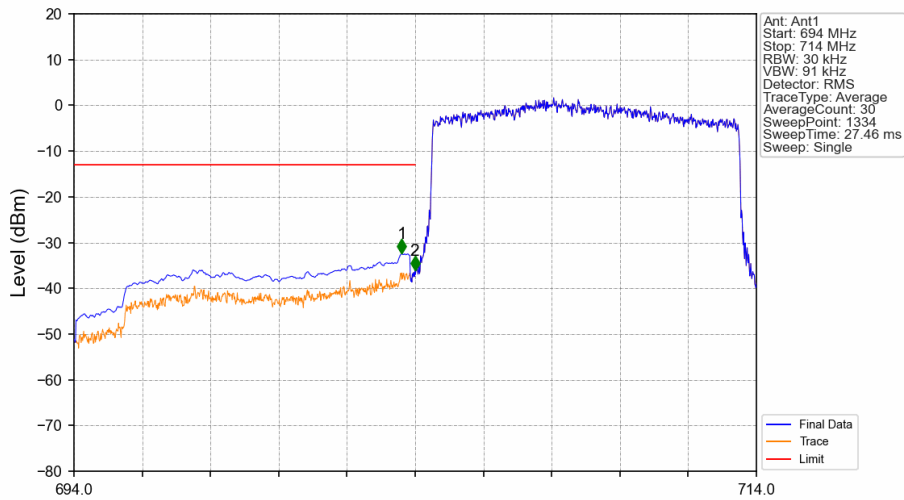
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Band17\_10MHz\_QPSK\_LCH\_709MHz\_RB\_50\_0\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 694         | 703.9      | 0.1       | CHP    | 1          | 703.602    | -32.37      | -13         | Pass   |
| 703.9       | 704        | 0.03      | /      | 2          | 703.992    | -36.05      | -13         | Pass   |
| 704         | 714        | 0.03      | /      | /          | /          | /           | /           | /      |

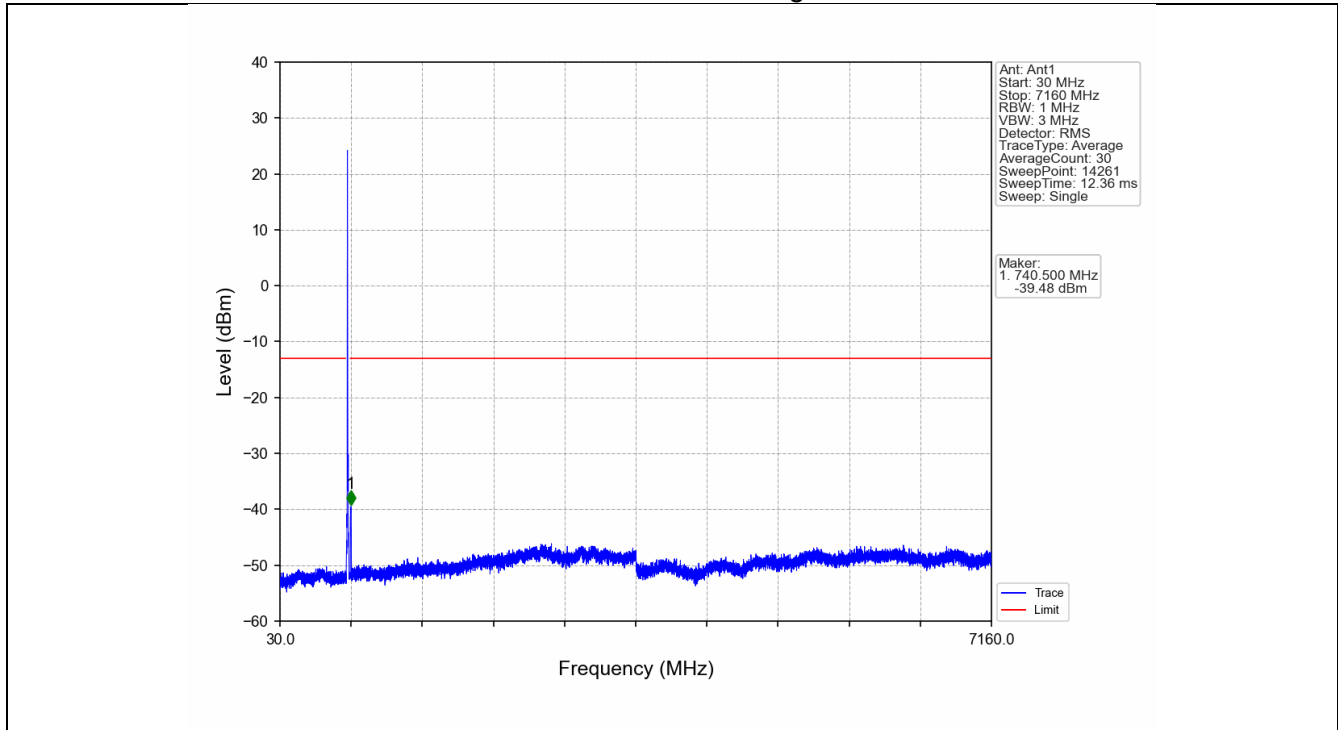
Band17\_10MHz\_QPSK\_MCH\_710MHz\_RB\_1\_0\_NTNV



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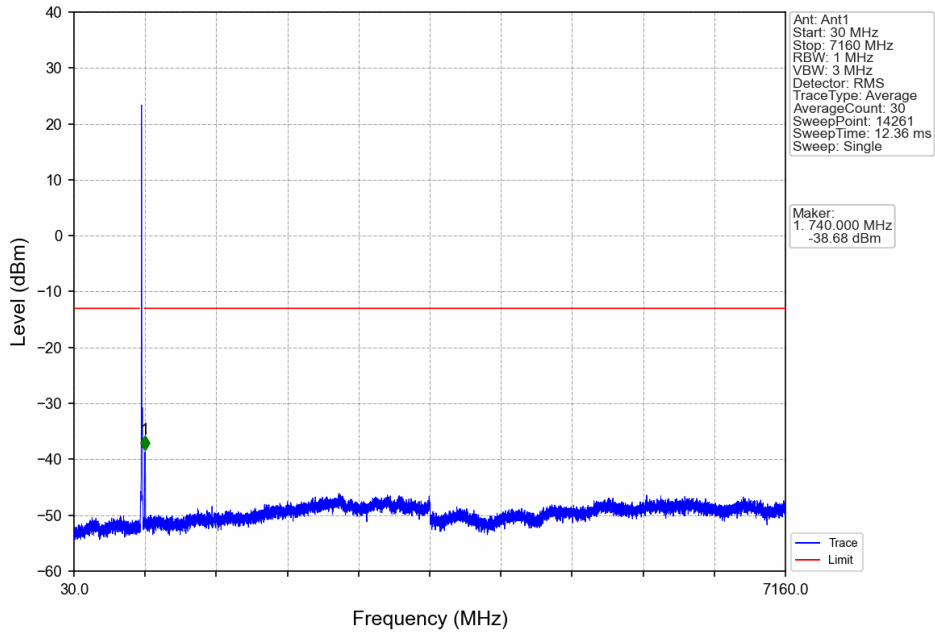


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Band17\_10MHz\_QPSK\_HCH\_711MHz\_RB\_1\_0\_NTNV



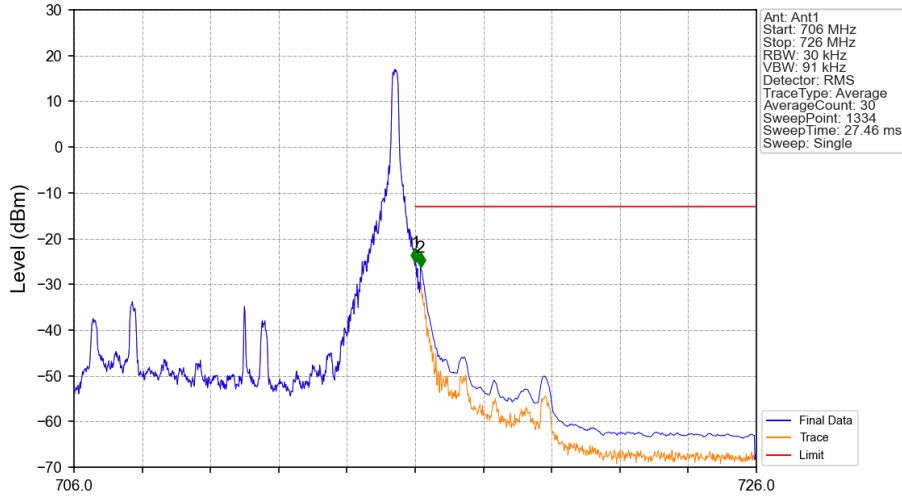
Band17\_10MHz\_QPSK\_HCH\_711MHz\_RB\_1\_49\_NTNV



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Ant: Ant1  
 Start: 706 MHz  
 Stop: 726 MHz  
 RBW: 30 kHz  
 VBW: 91 kHz  
 Detector: RMS  
 TraceType: Average  
 AverageCount: 30  
 SweepPoint: 1334  
 SweepTime: 27.46 ms  
 Sweep: Single

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 706         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.008    | -25.27      | -13         | Pass   |
| 716.1       | 726        | 0.1       | CHP    | 2          | 716.158    | -26.30      | -13         | Pass   |

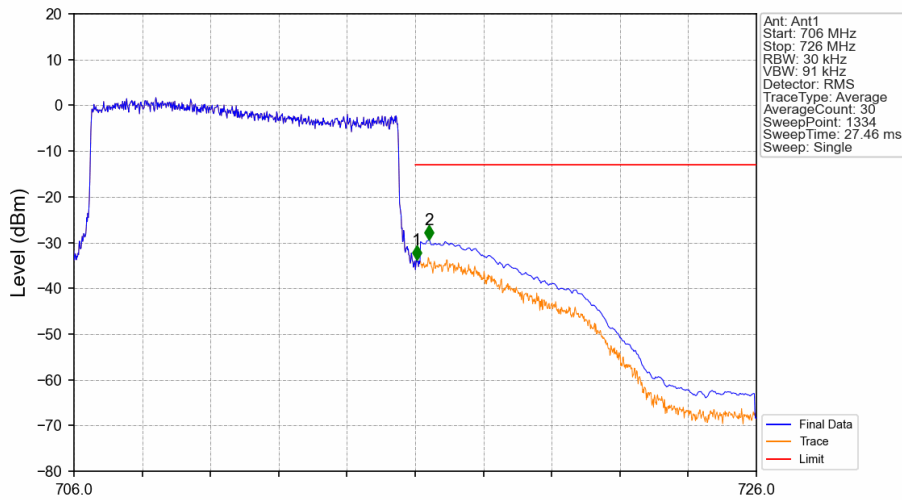


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Band17\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 706         | 716        | 0.03      | /      | /          | /          | /           | /           | /      |
| 716         | 716.1      | 0.03      | /      | 1          | 716.038    | -33.80      | -13         | Pass   |
| 716.1       | 726        | 0.1       | CHP    | 2          | 716.398    | -29.46      | -13         | Pass   |



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### 6. Field Strength of Spurious Radiation

Test Band = LTE\_17  
 Test Channel = LCH

| Final Data List |             |                |             |          |             |             |             |            |
|-----------------|-------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 2114        | 103.30         | -52.13      | 27.47    | -16.62      | -13.00      | 3.62        | Horizontal |
| 2               | 3523        | 81.44          | -49.24      | 29.94    | -33.12      | -13.00      | 20.12       | Horizontal |
| 3               | 4227.5      | 71.70          | -47.33      | 31.83    | -39.06      | -13.00      | 26.06       | Horizontal |
| 4               | 4932        | 67.19          | -44.42      | 33.16    | -39.33      | -13.00      | 26.33       | Horizontal |
| 5               | 6341        | 78.55          | -43.94      | 34.78    | -25.87      | -13.00      | 12.87       | Horizontal |
| 6               | 8454.5      | 56.19          | -41.97      | 37.99    | -43.05      | -13.00      | 30.05       | Horizontal |

| Final Data List |             |                |             |          |             |             |             |          |
|-----------------|-------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 2114        | 97.12          | -52.13      | 27.47    | -22.80      | -13.00      | 9.80        | Vertical |
| 2               | 3523        | 77.08          | -49.24      | 29.94    | -37.48      | -13.00      | 24.48       | Vertical |
| 3               | 4227.5      | 58.00          | -47.33      | 31.83    | -52.76      | -13.00      | 39.76       | Vertical |
| 4               | 4932        | 62.16          | -44.42      | 33.16    | -44.36      | -13.00      | 31.36       | Vertical |
| 5               | 6341        | 57.15          | -43.94      | 34.78    | -47.27      | -13.00      | 34.27       | Vertical |
| 6               | 7751        | 53.19          | -42.47      | 36.81    | -47.73      | -13.00      | 34.73       | Vertical |



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Test Band = LTE\_17
Test Channel = MCH

Table with 9 columns: NO., Freq. [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of test data.

Table with 9 columns: NO., Freq. [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of test data.



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Test Band = LTE\_17
Test Channel = HCH

Table with 9 columns: NO., Freq. [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of test data.

Table with 9 columns: NO., Freq. [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of test data.

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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