

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 B48\_5MHz\_EIRP

### 1.1.1 Test Result

| Band: 48 / Bandwidth: 5MHz / NTV |                 |               |        |                           |            |                |       |         |      |      |
|----------------------------------|-----------------|---------------|--------|---------------------------|------------|----------------|-------|---------|------|------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm/MHz) | Gain (dBi) | EIRP (dBm/MHz) |       | Verdict |      |      |
|                                  |                 | Size          | Offset |                           |            | Result         | Limit |         |      |      |
| QPSK                             | 3552.5          | 1             | 0      | 15.67                     | 5.33       | 21.00          | <=23  | Pass    |      |      |
|                                  |                 |               | 13     | 15.73                     | 5.33       | 21.06          | <=23  | Pass    |      |      |
|                                  |                 |               | 24     | 15.76                     | 5.33       | 21.09          | <=23  | Pass    |      |      |
|                                  |                 | 12            | 0      | 15.73                     | 5.33       | 21.06          | <=23  | Pass    |      |      |
|                                  |                 |               | 6      | 15.78                     | 5.33       | 21.11          | <=23  | Pass    |      |      |
|                                  |                 |               | 13     | 15.70                     | 5.33       | 21.03          | <=23  | Pass    |      |      |
|                                  |                 | 25            | 0      | 15.72                     | 5.33       | 21.05          | <=23  | Pass    |      |      |
|                                  |                 | 3625          | 1      | 0                         | 15.93      | 5.33           | 21.26 | <=23    | Pass |      |
|                                  |                 |               |        | 13                        | 15.94      | 5.33           | 21.27 | <=23    | Pass |      |
|                                  | 24              |               |        | 15.98                     | 5.33       | 21.31          | <=23  | Pass    |      |      |
|                                  | 12              |               | 0      | 15.83                     | 5.33       | 21.16          | <=23  | Pass    |      |      |
|                                  |                 |               | 6      | 15.84                     | 5.33       | 21.17          | <=23  | Pass    |      |      |
|                                  |                 |               | 13     | 15.97                     | 5.33       | 21.30          | <=23  | Pass    |      |      |
|                                  | 25              |               | 0      | 15.90                     | 5.33       | 21.23          | <=23  | Pass    |      |      |
|                                  | 3697.5          |               | 1      | 0                         | 16.57      | 5.33           | 21.90 | <=23    | Pass |      |
|                                  |                 |               |        | 13                        | 16.61      | 5.33           | 21.94 | <=23    | Pass |      |
|                                  |                 | 24            |        | 16.60                     | 5.33       | 21.93          | <=23  | Pass    |      |      |
|                                  |                 | 12            | 0      | 16.50                     | 5.33       | 21.83          | <=23  | Pass    |      |      |
|                                  |                 |               | 6      | 16.63                     | 5.33       | 21.96          | <=23  | Pass    |      |      |
|                                  |                 |               | 13     | 16.60                     | 5.33       | 21.93          | <=23  | Pass    |      |      |
|                                  |                 | 25            | 0      | 16.57                     | 5.33       | 21.90          | <=23  | Pass    |      |      |
|                                  |                 | 16QAM         | 3552.5 | 1                         | 0          | 15.52          | 5.33  | 20.85   | <=23 | Pass |
|                                  |                 |               |        |                           | 13         | 15.66          | 5.33  | 20.99   | <=23 | Pass |
|                                  | 24              |               |        |                           | 15.76      | 5.33           | 21.09 | <=23    | Pass |      |
| 12                               | 0               |               |        | 15.68                     | 5.33       | 21.01          | <=23  | Pass    |      |      |
|                                  | 6               |               |        | 15.80                     | 5.33       | 21.13          | <=23  | Pass    |      |      |
|                                  | 13              |               |        | 15.70                     | 5.33       | 21.03          | <=23  | Pass    |      |      |
| 25                               | 0               |               |        | 15.63                     | 5.33       | 20.96          | <=23  | Pass    |      |      |
| 3625                             | 1               |               |        | 0                         | 15.81      | 5.33           | 21.14 | <=23    | Pass |      |
|                                  |                 |               |        | 13                        | 15.94      | 5.33           | 21.27 | <=23    | Pass |      |
|                                  |                 |               | 24     | 15.82                     | 5.33       | 21.15          | <=23  | Pass    |      |      |
|                                  | 12              |               | 0      | 15.82                     | 5.33       | 21.15          | <=23  | Pass    |      |      |
|                                  |                 |               | 6      | 15.88                     | 5.33       | 21.21          | <=23  | Pass    |      |      |
|                                  |                 |               | 13     | 15.94                     | 5.33       | 21.27          | <=23  | Pass    |      |      |
|                                  | 25              |               | 0      | 15.97                     | 5.33       | 21.30          | <=23  | Pass    |      |      |
|                                  | 3697.5          |               | 1      | 0                         | 16.36      | 5.33           | 21.69 | <=23    | Pass |      |
|                                  |                 |               |        | 13                        | 16.52      | 5.33           | 21.85 | <=23    | Pass |      |
| 24                               |                 |               |        | 16.70                     | 5.33       | 22.03          | <=23  | Pass    |      |      |
| 12                               |                 |               | 0      | 16.43                     | 5.33       | 21.76          | <=23  | Pass    |      |      |
|                                  |                 |               | 6      | 16.58                     | 5.33       | 21.91          | <=23  | Pass    |      |      |
|                                  |                 |               | 13     | 16.45                     | 5.33       | 21.78          | <=23  | Pass    |      |      |
| 25                               |                 |               | 0      | 16.62                     | 5.33       | 21.95          | <=23  | Pass    |      |      |
| 64QAM                            |                 |               | 3552.5 | 1                         | 0          | 15.69          | 5.33  | 21.02   | <=23 | Pass |
|                                  |                 |               |        |                           | 13         | 15.93          | 5.33  | 21.26   | <=23 | Pass |
|                                  | 24              |               |        |                           | 15.87      | 5.33           | 21.20 | <=23    | Pass |      |
|                                  | 12              | 0             |        | 15.77                     | 5.33       | 21.10          | <=23  | Pass    |      |      |
|                                  |                 | 6             |        | 15.77                     | 5.33       | 21.10          | <=23  | Pass    |      |      |
|                                  |                 | 13            |        | 15.62                     | 5.33       | 20.95          | <=23  | Pass    |      |      |
|                                  | 25              | 0             |        | 15.78                     | 5.33       | 21.11          | <=23  | Pass    |      |      |

|        |        |        |        |       |       |       |       |       |      |      |
|--------|--------|--------|--------|-------|-------|-------|-------|-------|------|------|
| 256QAM | 3625   | 1      | 0      | 16.10 | 5.33  | 21.43 | <=23  | Pass  |      |      |
|        |        |        | 13     | 16.52 | 5.33  | 21.85 | <=23  | Pass  |      |      |
|        |        |        | 24     | 17.04 | 5.33  | 22.37 | <=23  | Pass  |      |      |
|        |        | 12     | 0      | 16.91 | 5.33  | 22.24 | <=23  | Pass  |      |      |
|        |        |        | 6      | 16.92 | 5.33  | 22.25 | <=23  | Pass  |      |      |
|        |        |        | 13     | 16.94 | 5.33  | 22.27 | <=23  | Pass  |      |      |
|        |        | 25     | 0      | 16.87 | 5.33  | 22.20 | <=23  | Pass  |      |      |
|        |        | 3697.5 | 1      | 0     | 17.23 | 5.33  | 22.56 | <=23  | Pass |      |
|        |        |        |        | 13    | 17.40 | 5.33  | 22.73 | <=23  | Pass |      |
|        | 24     |        |        | 17.35 | 5.33  | 22.68 | <=23  | Pass  |      |      |
|        | 12     |        | 0      | 17.35 | 5.33  | 22.68 | <=23  | Pass  |      |      |
|        |        |        | 6      | 17.48 | 5.33  | 22.81 | <=23  | Pass  |      |      |
|        |        |        | 13     | 17.51 | 5.33  | 22.84 | <=23  | Pass  |      |      |
|        | 25     |        | 0      | 17.42 | 5.33  | 22.75 | <=23  | Pass  |      |      |
|        | 256QAM |        | 3552.5 | 1     | 0     | 15.77 | 5.33  | 21.10 | <=23 | Pass |
|        |        |        |        |       | 13    | 15.74 | 5.33  | 21.07 | <=23 | Pass |
|        |        | 24     |        |       | 15.90 | 5.33  | 21.23 | <=23  | Pass |      |
|        |        | 12     |        | 0     | 15.87 | 5.33  | 21.20 | <=23  | Pass |      |
|        |        |        |        | 6     | 15.82 | 5.33  | 21.15 | <=23  | Pass |      |
|        |        |        |        | 13    | 15.80 | 5.33  | 21.13 | <=23  | Pass |      |
|        |        | 25     |        | 0     | 15.88 | 5.33  | 21.21 | <=23  | Pass |      |
|        |        | 3625   |        | 1     | 0     | 16.97 | 5.33  | 22.30 | <=23 | Pass |
|        |        |        |        |       | 13    | 17.08 | 5.33  | 22.41 | <=23 | Pass |
|        |        |        | 24     |       | 16.98 | 5.33  | 22.31 | <=23  | Pass |      |
| 12     |        |        | 0      | 16.90 | 5.33  | 22.23 | <=23  | Pass  |      |      |
|        |        |        | 6      | 16.92 | 5.33  | 22.25 | <=23  | Pass  |      |      |
|        |        |        | 13     | 16.91 | 5.33  | 22.24 | <=23  | Pass  |      |      |
| 25     |        |        | 0      | 16.88 | 5.33  | 22.21 | <=23  | Pass  |      |      |
| 3697.5 |        |        | 1      | 0     | 17.19 | 5.33  | 22.52 | <=23  | Pass |      |
|        |        |        |        | 13    | 17.52 | 5.33  | 22.85 | <=23  | Pass |      |
|        |        | 24     |        | 17.58 | 5.33  | 22.91 | <=23  | Pass  |      |      |
|        |        | 12     | 0      | 17.38 | 5.33  | 22.71 | <=23  | Pass  |      |      |
|        |        |        | 6      | 17.45 | 5.33  | 22.78 | <=23  | Pass  |      |      |
|        |        |        | 13     | 17.44 | 5.33  | 22.77 | <=23  | Pass  |      |      |
|        |        | 25     | 0      | 17.51 | 5.33  | 22.84 | <=23  | Pass  |      |      |

Note1: EIRP=Conducted Power+Antenna Gain

## 1.2 B48\_5MHz\_EIRP/10MHz

### 1.2.1 Test Result

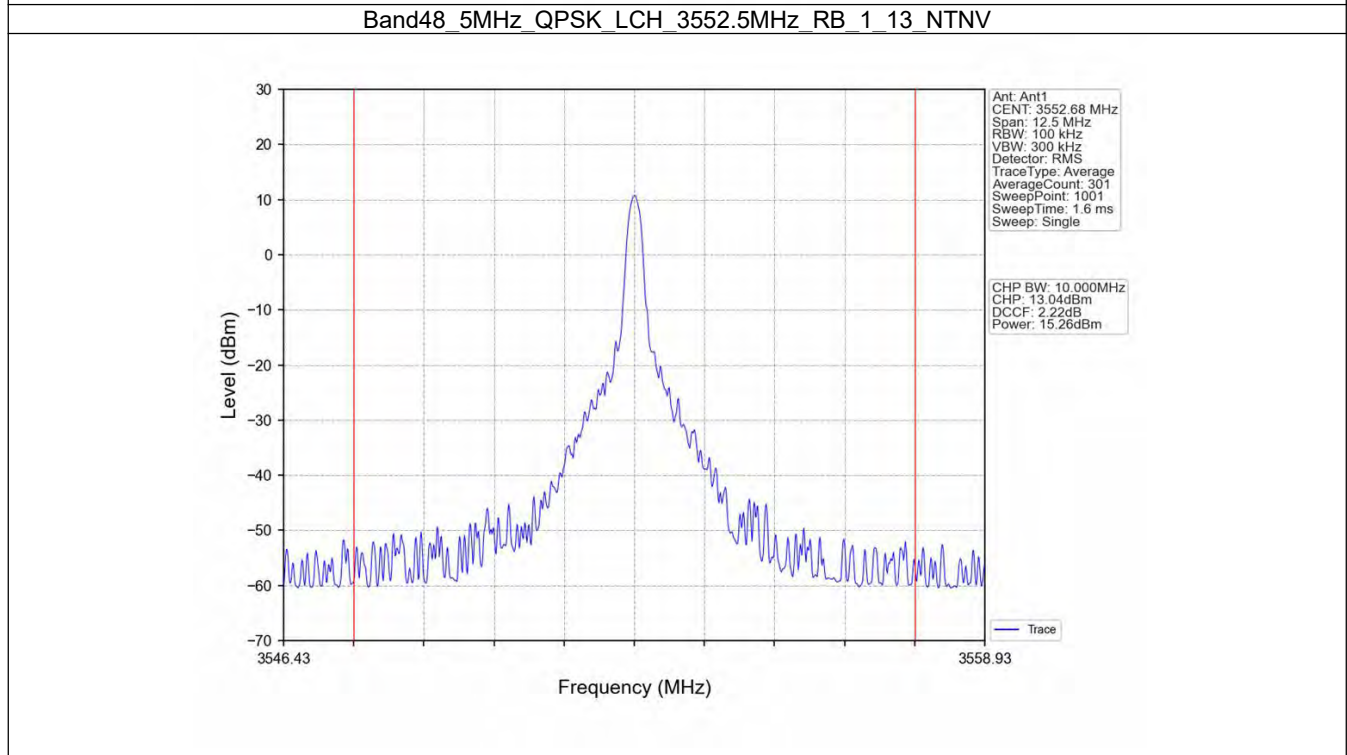
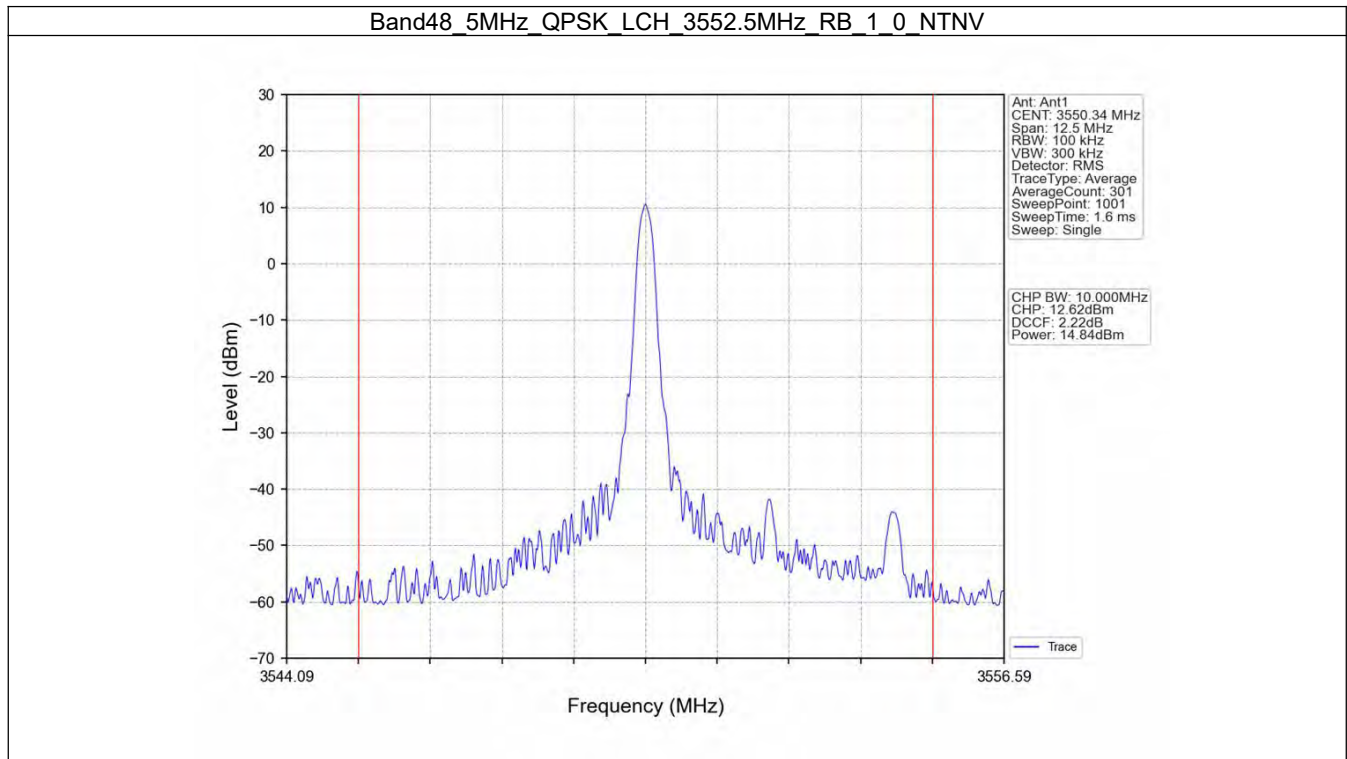
| Band: 48 / Bandwidth: 5MHz / NTV |                 |               |        |                             |            |                        |       |         |      |
|----------------------------------|-----------------|---------------|--------|-----------------------------|------------|------------------------|-------|---------|------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm/10MHz) | Gain (dBi) | EIRP/10MHz (dBm/10MHz) |       | Verdict |      |
|                                  |                 | Size          | Offset |                             |            | Result                 | Limit |         |      |
| QPSK                             | 3552.5          | 1             | 0      | 14.84                       | 5.33       | 20.17                  | <=23  | Pass    |      |
|                                  |                 |               | 13     | 15.26                       | 5.33       | 20.59                  | <=23  | Pass    |      |
|                                  |                 |               | 24     | 15.01                       | 5.33       | 20.34                  | <=23  | Pass    |      |
|                                  |                 | 12            | 0      | 14.98                       | 5.33       | 20.31                  | <=23  | Pass    |      |
|                                  |                 |               | 6      | 15.71                       | 5.33       | 21.04                  | <=23  | Pass    |      |
|                                  |                 |               | 13     | 15.16                       | 5.33       | 20.49                  | <=23  | Pass    |      |
|                                  |                 | 25            | 0      | 15.18                       | 5.33       | 20.51                  | <=23  | Pass    |      |
|                                  |                 | 3625          | 1      | 0                           | 16.00      | 5.33                   | 21.33 | <=23    | Pass |
|                                  |                 |               |        | 13                          | 16.18      | 5.33                   | 21.51 | <=23    | Pass |
|                                  | 24              |               |        | 16.17                       | 5.33       | 21.50                  | <=23  | Pass    |      |
|                                  | 12              |               | 0      | 16.16                       | 5.33       | 21.49                  | <=23  | Pass    |      |
|                                  |                 |               | 6      | 15.99                       | 5.33       | 21.32                  | <=23  | Pass    |      |
|                                  |                 |               | 13     | 16.16                       | 5.33       | 21.49                  | <=23  | Pass    |      |

|        |        |       |        |       |       |       |       |       |      |
|--------|--------|-------|--------|-------|-------|-------|-------|-------|------|
|        | 3697.5 | 25    | 0      | 15.99 | 5.33  | 21.32 | <=23  | Pass  |      |
|        |        |       | 1      | 0     | 16.85 | 5.33  | 22.18 | <=23  | Pass |
|        |        |       |        | 13    | 17.49 | 5.33  | 22.82 | <=23  | Pass |
|        |        | 12    | 24     | 17.58 | 5.33  | 22.91 | <=23  | Pass  |      |
|        |        |       | 0      | 16.97 | 5.33  | 22.30 | <=23  | Pass  |      |
|        |        |       | 6      | 16.96 | 5.33  | 22.29 | <=23  | Pass  |      |
|        |        | 25    | 1      | 13    | 17.52 | 5.33  | 22.85 | <=23  | Pass |
|        |        |       |        | 0     | 17.27 | 5.33  | 22.60 | <=23  | Pass |
|        |        |       |        | 13    | 17.27 | 5.33  | 22.60 | <=23  | Pass |
|        |        | 16QAM | 3552.5 | 1     | 0     | 15.25 | 5.33  | 20.58 | <=23 |
| 13     | 15.23  |       |        |       | 5.33  | 20.56 | <=23  | Pass  |      |
| 24     | 15.05  |       |        |       | 5.33  | 20.38 | <=23  | Pass  |      |
| 12     | 0      |       |        | 15.17 | 5.33  | 20.50 | <=23  | Pass  |      |
|        | 6      |       |        | 15.11 | 5.33  | 20.44 | <=23  | Pass  |      |
|        | 13     |       |        | 15.58 | 5.33  | 20.91 | <=23  | Pass  |      |
| 25     | 1      |       |        | 0     | 15.20 | 5.33  | 20.53 | <=23  | Pass |
|        |        |       |        | 0     | 16.04 | 5.33  | 21.37 | <=23  | Pass |
|        |        |       |        | 13    | 16.24 | 5.33  | 21.57 | <=23  | Pass |
| 3625   | 1      |       | 24     | 16.35 | 5.33  | 21.68 | <=23  | Pass  |      |
|        |        |       | 0      | 16.10 | 5.33  | 21.43 | <=23  | Pass  |      |
|        |        |       | 6      | 16.14 | 5.33  | 21.47 | <=23  | Pass  |      |
|        | 12     |       | 13     | 15.92 | 5.33  | 21.25 | <=23  | Pass  |      |
|        |        |       | 0      | 15.93 | 5.33  | 21.26 | <=23  | Pass  |      |
|        |        |       | 0      | 17.27 | 5.33  | 22.60 | <=23  | Pass  |      |
| 3697.5 | 1      |       | 13     | 17.10 | 5.33  | 22.43 | <=23  | Pass  |      |
|        |        |       | 24     | 17.03 | 5.33  | 22.36 | <=23  | Pass  |      |
|        |        |       | 0      | 17.07 | 5.33  | 22.40 | <=23  | Pass  |      |
|        | 12     |       | 6      | 17.27 | 5.33  | 22.60 | <=23  | Pass  |      |
|        |        |       | 13     | 16.97 | 5.33  | 22.30 | <=23  | Pass  |      |
|        |        |       | 0      | 17.10 | 5.33  | 22.43 | <=23  | Pass  |      |
|        | 25     |       | 1      | 0     | 15.36 | 5.33  | 20.69 | <=23  | Pass |
|        |        |       |        | 13    | 15.58 | 5.33  | 20.91 | <=23  | Pass |
|        |        |       |        | 24    | 15.78 | 5.33  | 21.11 | <=23  | Pass |
| 64QAM  | 3552.5 |       | 1      | 0     | 15.27 | 5.33  | 20.60 | <=23  | Pass |
|        |        |       |        | 6     | 15.70 | 5.33  | 21.03 | <=23  | Pass |
|        |        |       |        | 13    | 15.50 | 5.33  | 20.83 | <=23  | Pass |
|        |        |       | 12     | 0     | 15.28 | 5.33  | 20.61 | <=23  | Pass |
|        |        |       |        | 0     | 16.29 | 5.33  | 21.62 | <=23  | Pass |
|        |        |       |        | 13    | 16.63 | 5.33  | 21.96 | <=23  | Pass |
|        | 3625   | 1     | 24     | 16.60 | 5.33  | 21.93 | <=23  | Pass  |      |
|        |        |       | 0      | 16.33 | 5.33  | 21.66 | <=23  | Pass  |      |
|        |        |       | 6      | 16.43 | 5.33  | 21.76 | <=23  | Pass  |      |
|        |        | 12    | 13     | 16.18 | 5.33  | 21.51 | <=23  | Pass  |      |
|        |        |       | 0      | 16.02 | 5.33  | 21.35 | <=23  | Pass  |      |
|        |        |       | 0      | 17.05 | 5.33  | 22.38 | <=23  | Pass  |      |
|        | 3697.5 | 1     | 13     | 16.99 | 5.33  | 22.32 | <=23  | Pass  |      |
|        |        |       | 24     | 17.37 | 5.33  | 22.70 | <=23  | Pass  |      |
|        |        |       | 0      | 16.93 | 5.33  | 22.26 | <=23  | Pass  |      |
|        |        | 12    | 6      | 17.11 | 5.33  | 22.44 | <=23  | Pass  |      |
|        |        |       | 13     | 16.91 | 5.33  | 22.24 | <=23  | Pass  |      |
|        |        |       | 0      | 17.11 | 5.33  | 22.44 | <=23  | Pass  |      |
| 25     |        | 1     | 0      | 15.46 | 5.33  | 20.79 | <=23  | Pass  |      |
|        |        |       | 13     | 15.72 | 5.33  | 21.05 | <=23  | Pass  |      |
|        |        |       | 24     | 15.33 | 5.33  | 20.66 | <=23  | Pass  |      |
| 256QAM | 3552.5 | 1     | 0      | 15.60 | 5.33  | 20.93 | <=23  | Pass  |      |
|        |        |       | 6      | 15.70 | 5.33  | 21.03 | <=23  | Pass  |      |
|        |        |       | 13     | 15.23 | 5.33  | 20.56 | <=23  | Pass  |      |
|        |        | 12    | 0      | 15.26 | 5.33  | 20.59 | <=23  | Pass  |      |
|        |        |       | 0      | 15.93 | 5.33  | 21.26 | <=23  | Pass  |      |
|        |        |       | 13     | 16.26 | 5.33  | 21.59 | <=23  | Pass  |      |
| 3625   | 1      | 0     | 15.93  | 5.33  | 21.26 | <=23  | Pass  |       |      |
|        |        | 13    | 16.26  | 5.33  | 21.59 | <=23  | Pass  |       |      |

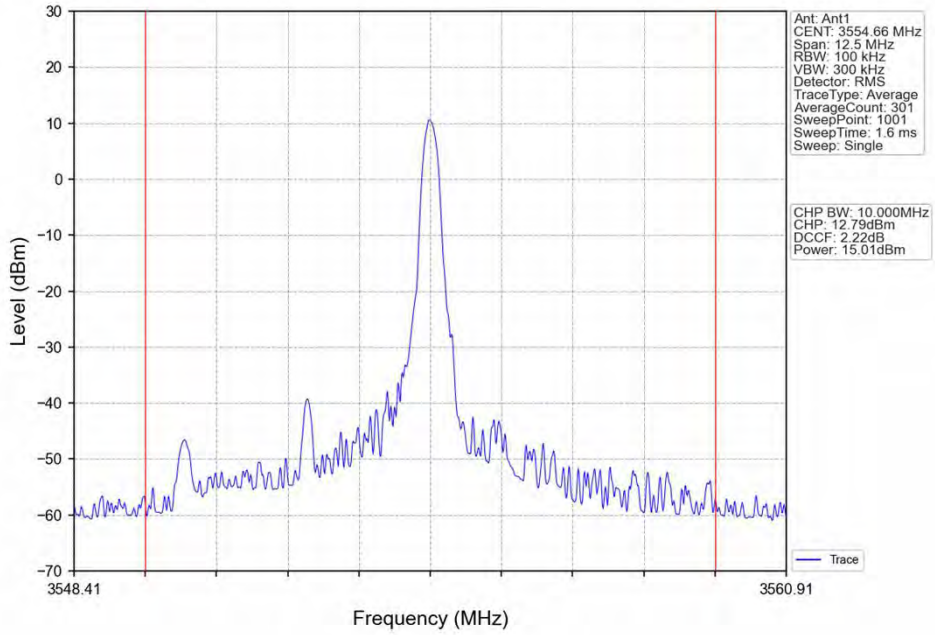
|  |        |    |    |       |      |       |      |      |
|--|--------|----|----|-------|------|-------|------|------|
|  |        | 12 | 24 | 16.23 | 5.33 | 21.56 | <=23 | Pass |
|  |        |    | 0  | 16.13 | 5.33 | 21.46 | <=23 | Pass |
|  |        |    | 6  | 16.09 | 5.33 | 21.42 | <=23 | Pass |
|  |        |    | 13 | 16.29 | 5.33 | 21.62 | <=23 | Pass |
|  |        | 25 | 0  | 15.91 | 5.33 | 21.24 | <=23 | Pass |
|  | 3697.5 | 1  | 0  | 16.94 | 5.33 | 22.27 | <=23 | Pass |
|  |        |    | 13 | 16.58 | 5.33 | 21.91 | <=23 | Pass |
|  |        |    | 24 | 17.38 | 5.33 | 22.71 | <=23 | Pass |
|  |        | 12 | 0  | 16.82 | 5.33 | 22.15 | <=23 | Pass |
|  |        |    | 6  | 16.81 | 5.33 | 22.14 | <=23 | Pass |
|  |        |    | 13 | 17.02 | 5.33 | 22.35 | <=23 | Pass |
|  |        | 25 | 0  | 17.11 | 5.33 | 22.44 | <=23 | Pass |

Note1: EIRP/10MHz=Conducted Power+Antenna Gain-2.15

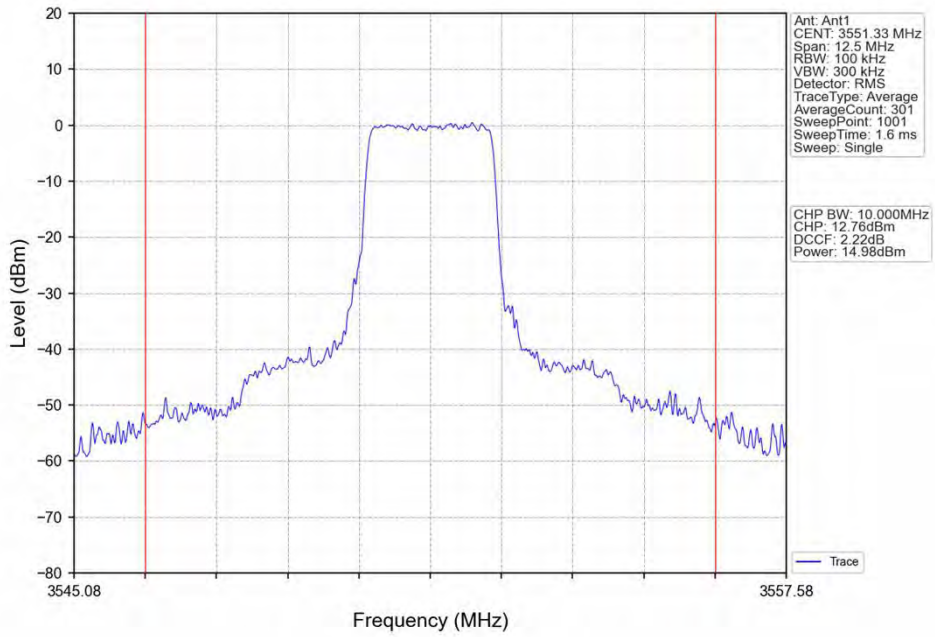
## 1.2.2 Test Graph



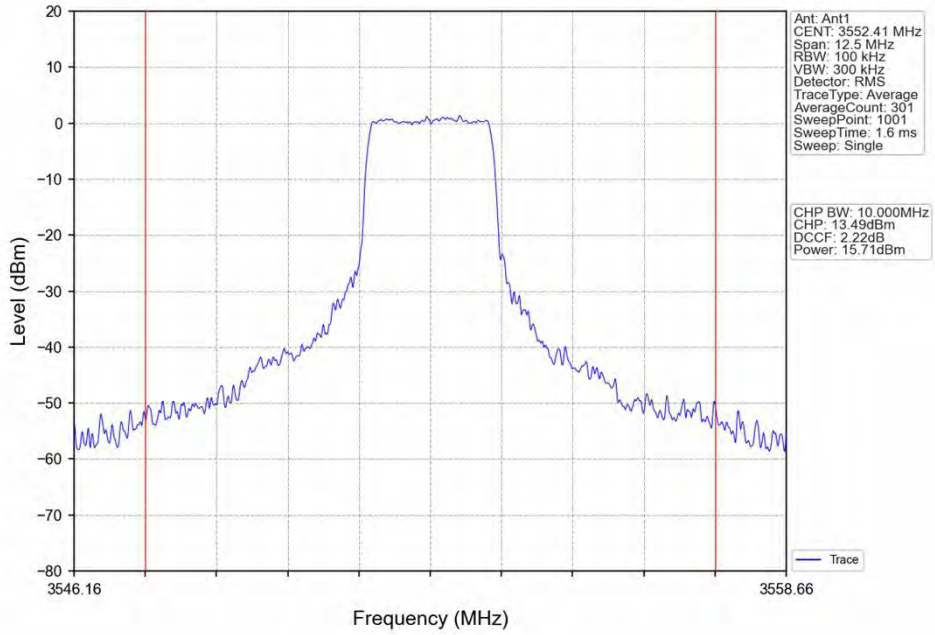
Band48 5MHz QPSK LCH 3552.5MHz RB 1 24 NTNV



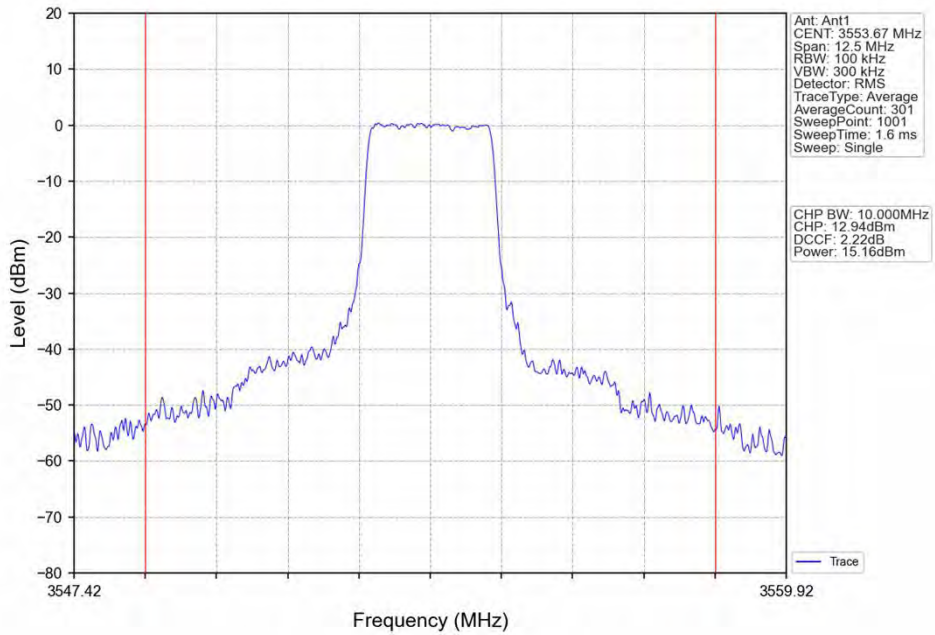
Band48 5MHz QPSK LCH 3552.5MHz RB 12 0 NTNV



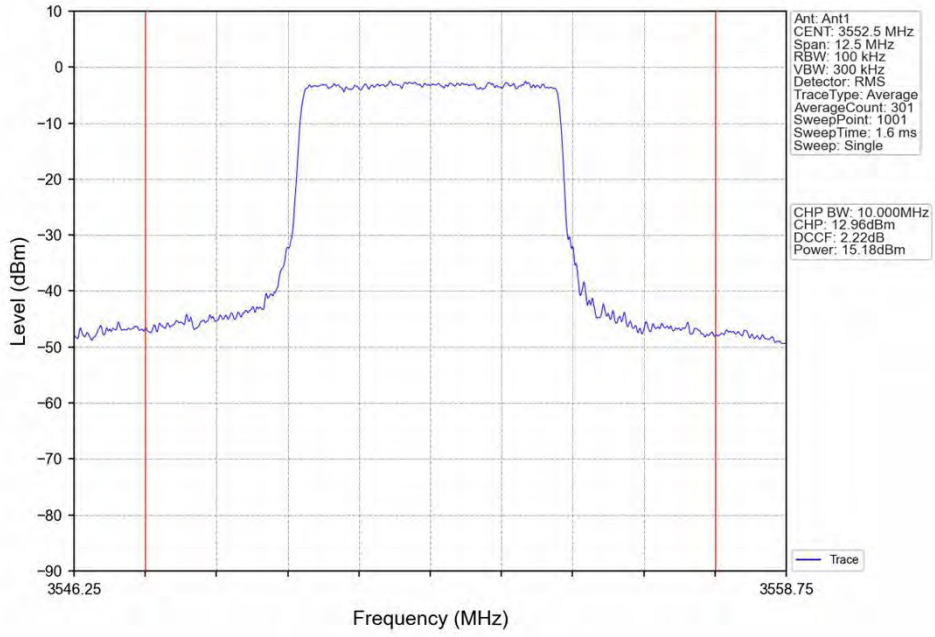
Band48 5MHz QPSK LCH 3552.5MHz RB 12 6 NTN



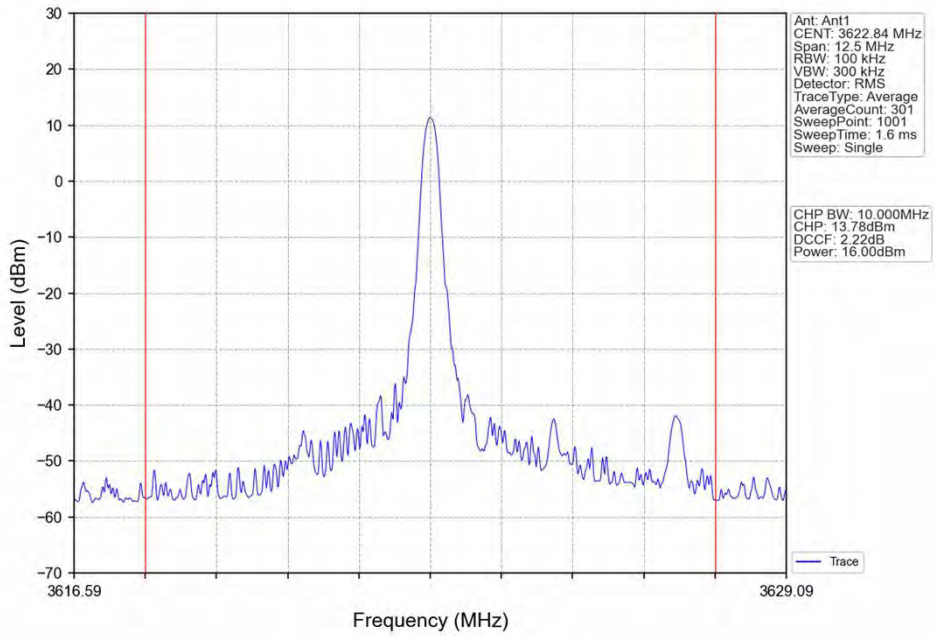
Band48 5MHz QPSK LCH 3552.5MHz RB 12 13 NTN



Band48 5MHz QPSK LCH 3552.5MHz RB 25 0 NTV

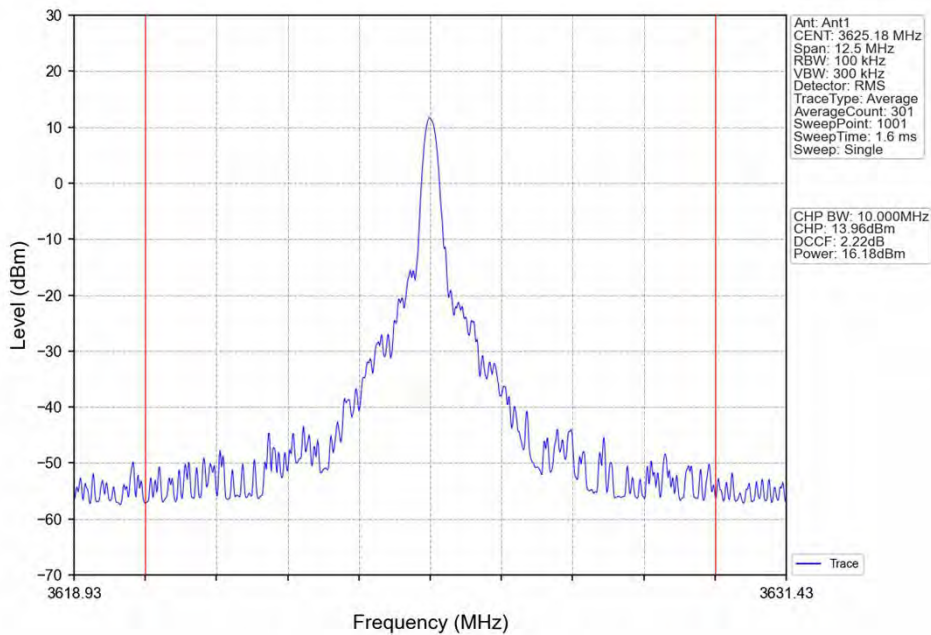


Band48 5MHz QPSK MCH 3625MHz RB 1 0 NTV

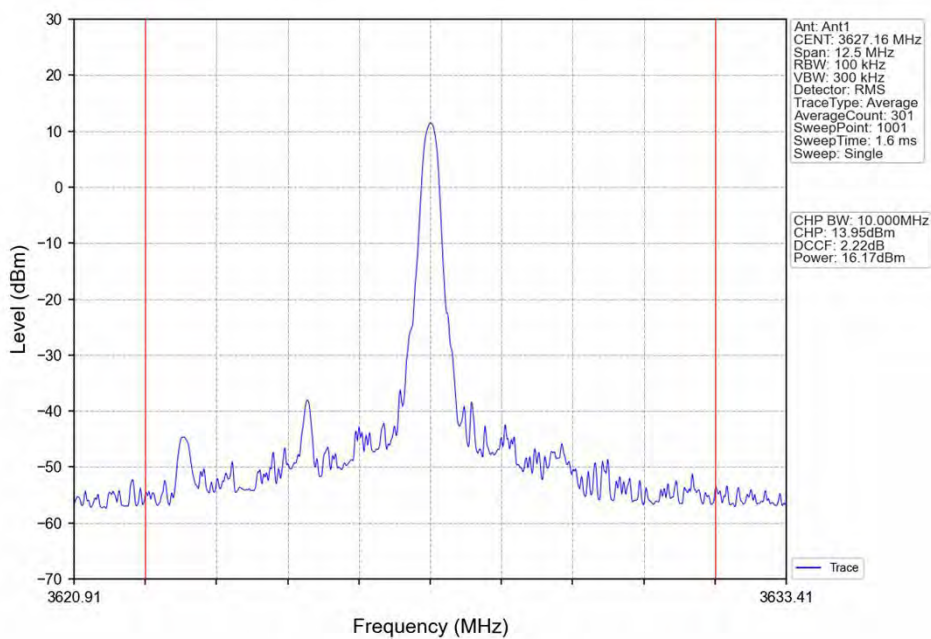




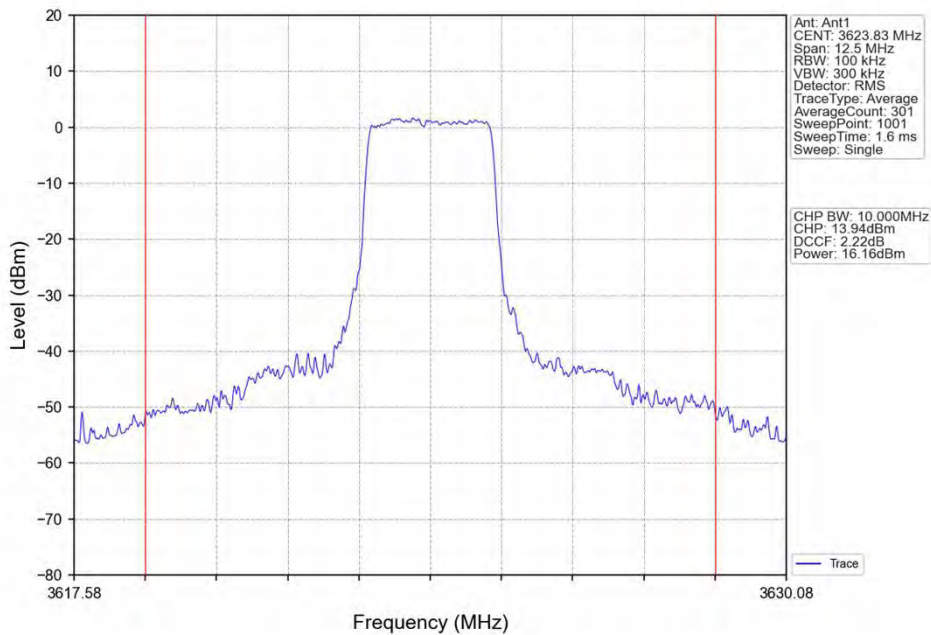
Band48 5MHz QPSK MCH 3625MHz RB 1 13 NTN



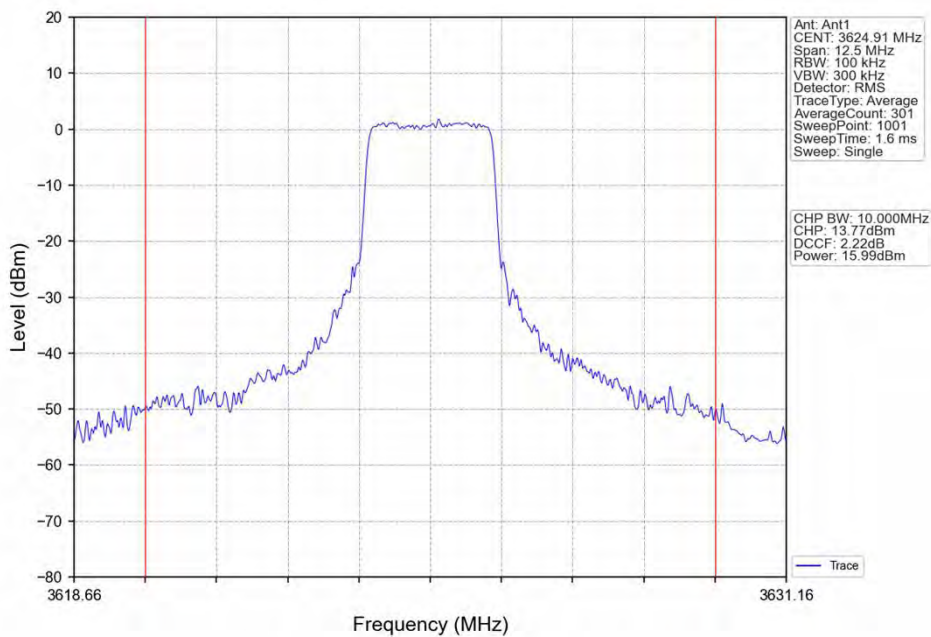
Band48 5MHz QPSK MCH 3625MHz RB 1 24 NTN



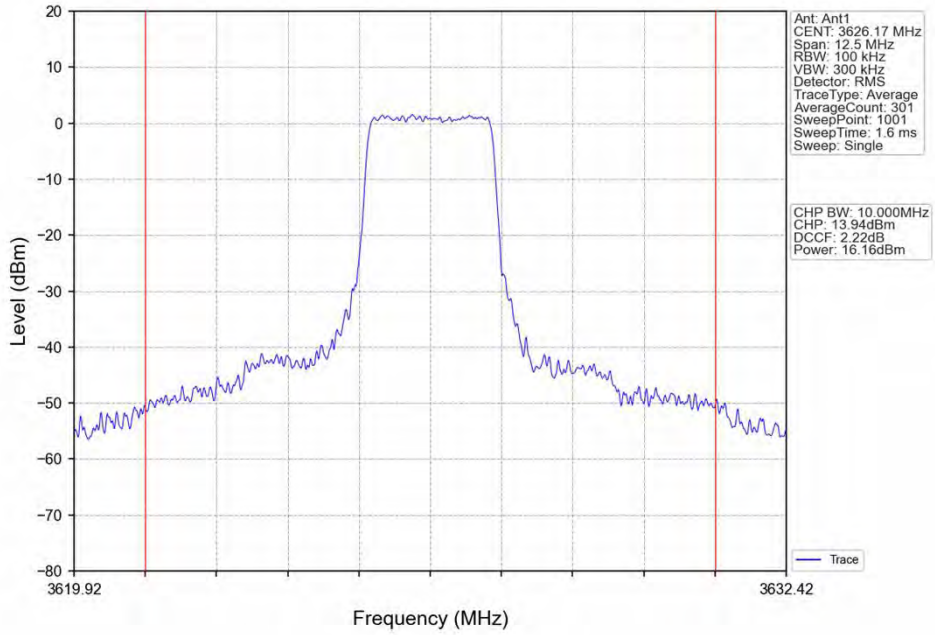
Band48 5MHz QPSK MCH 3625MHz RB 12 0 NTN



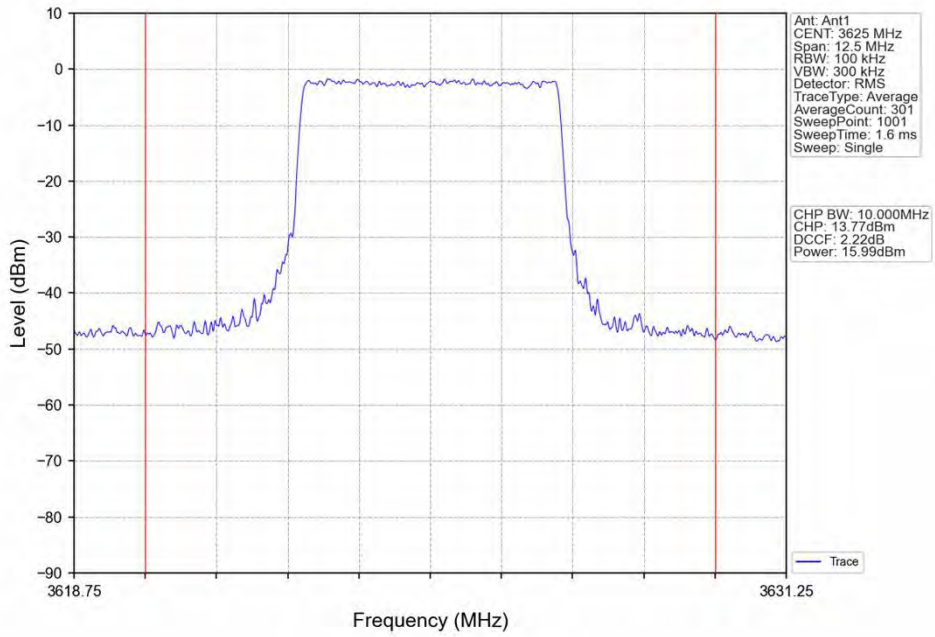
Band48 5MHz QPSK MCH 3625MHz RB 12 6 NTN



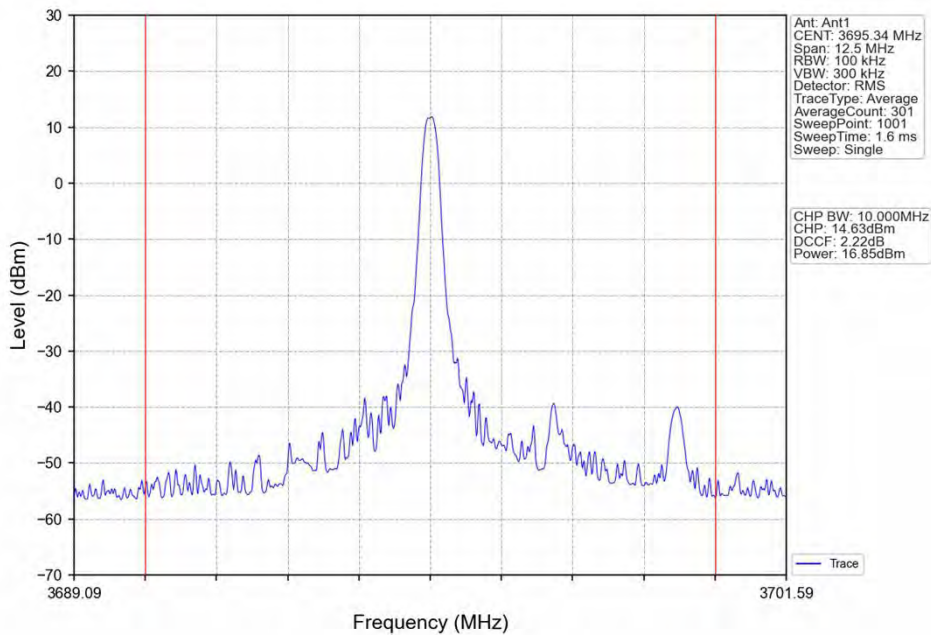
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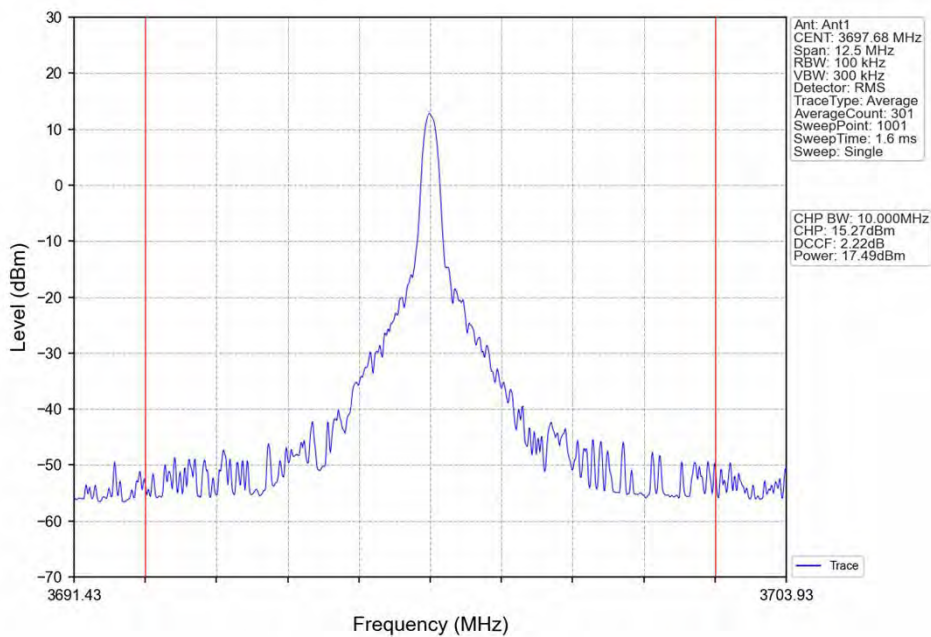
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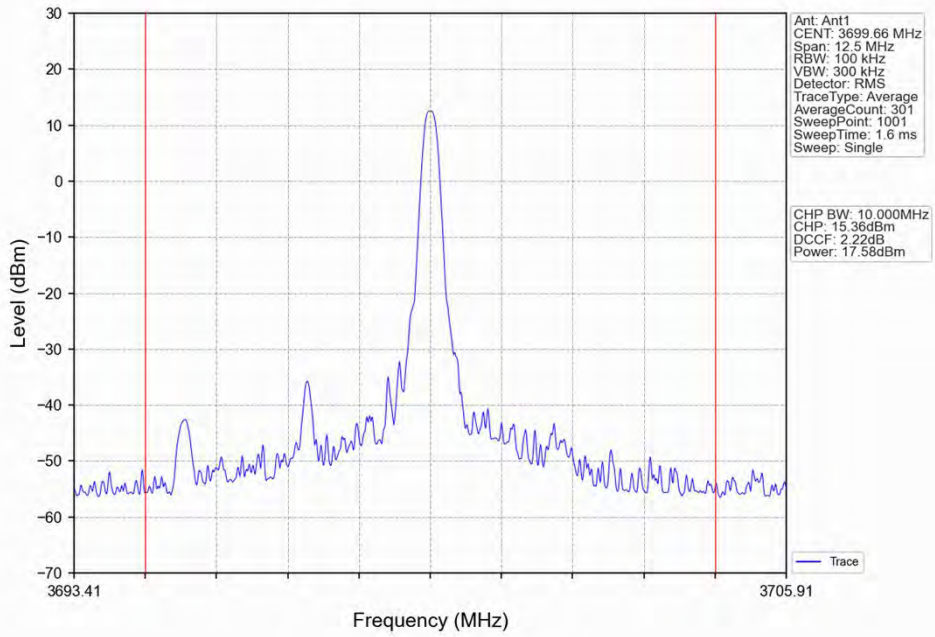
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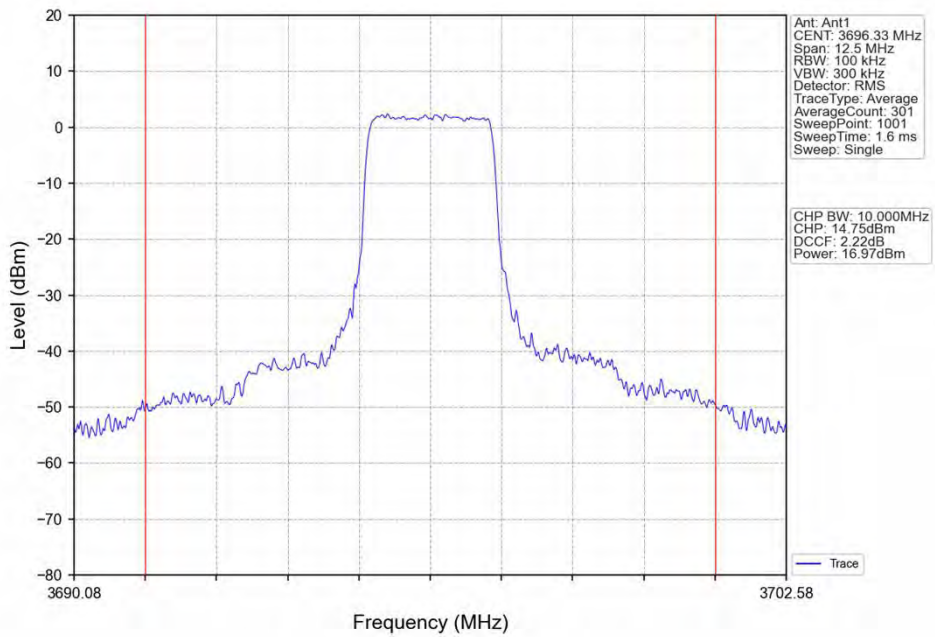
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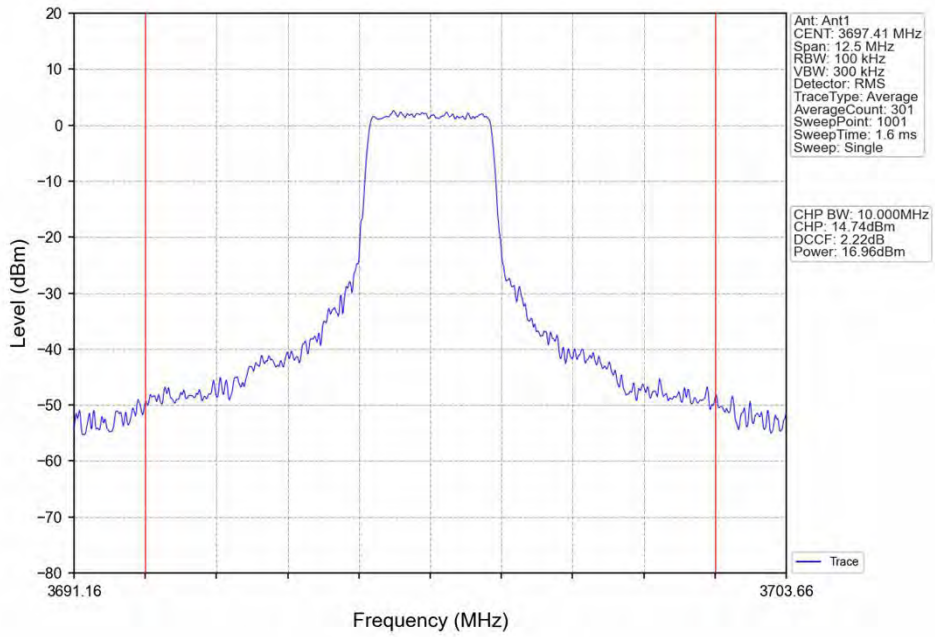
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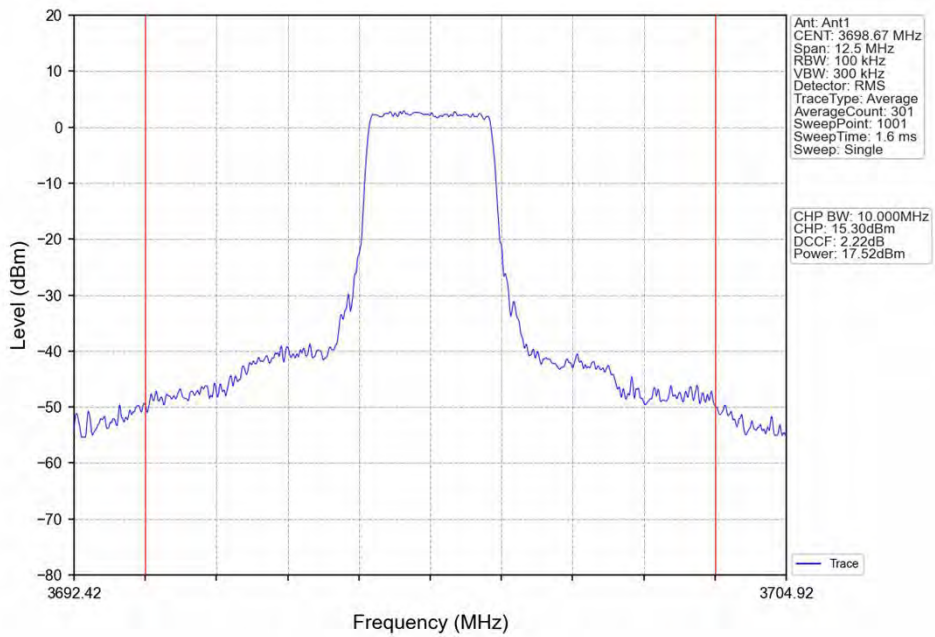
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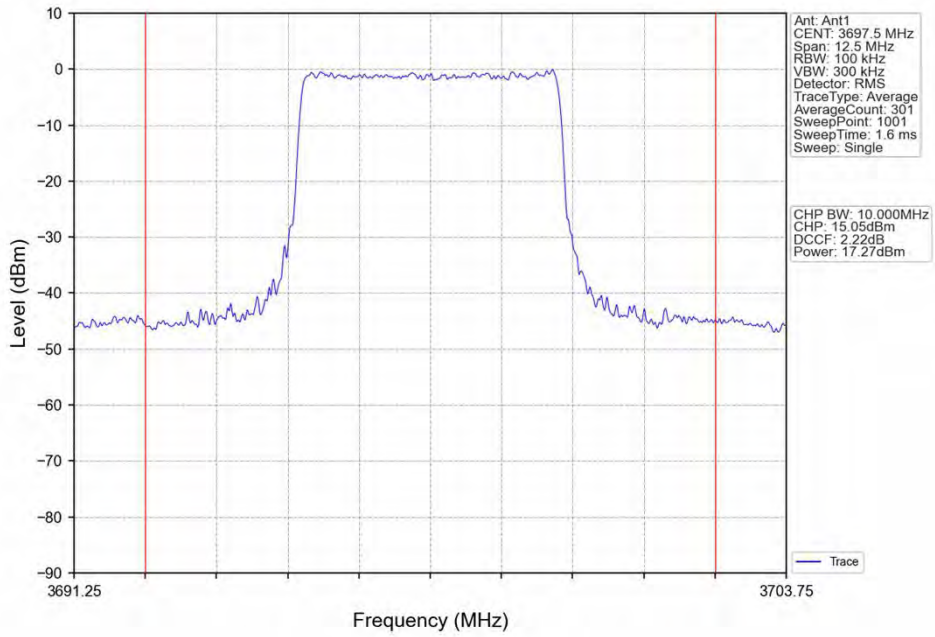
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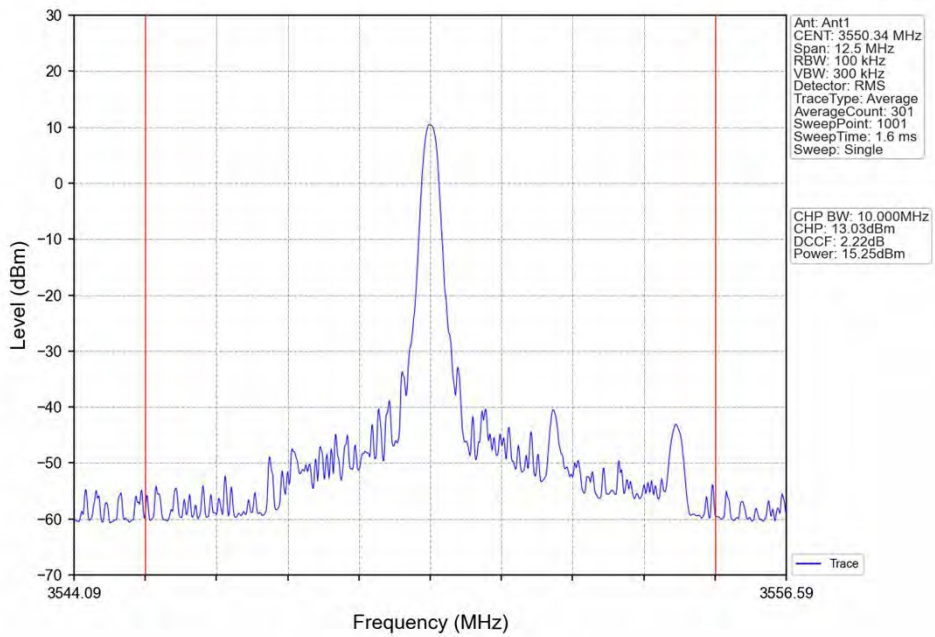
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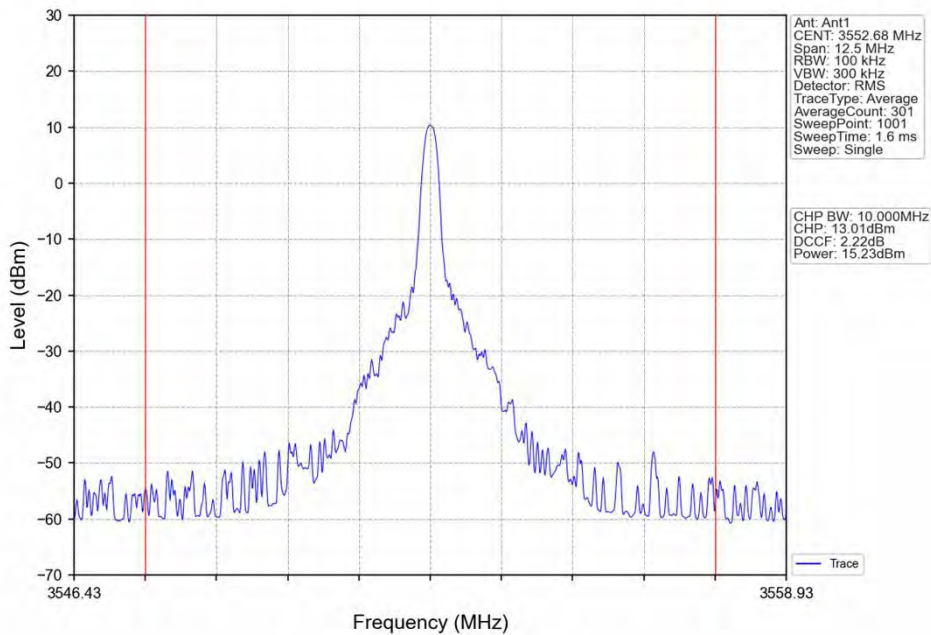
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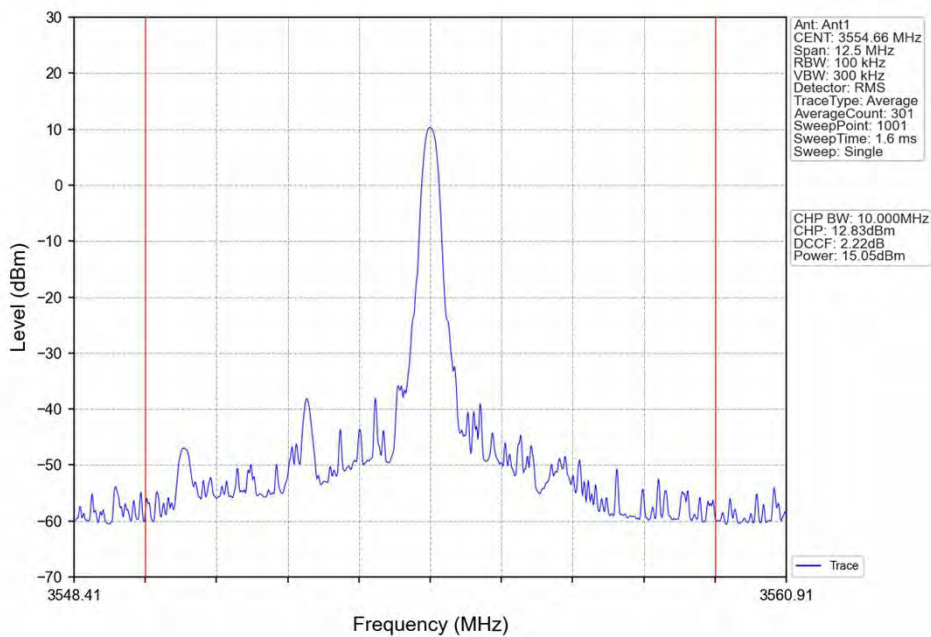
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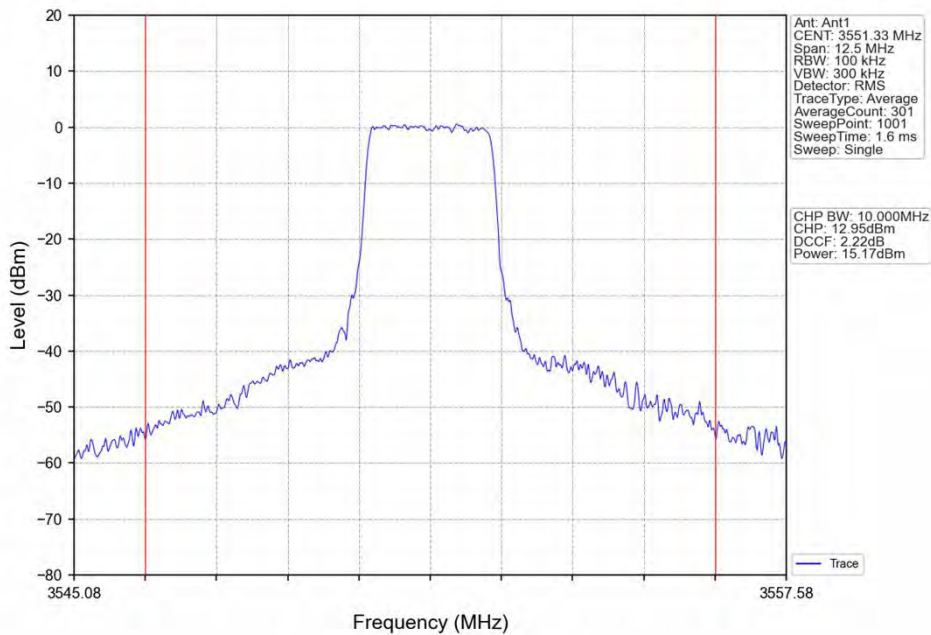


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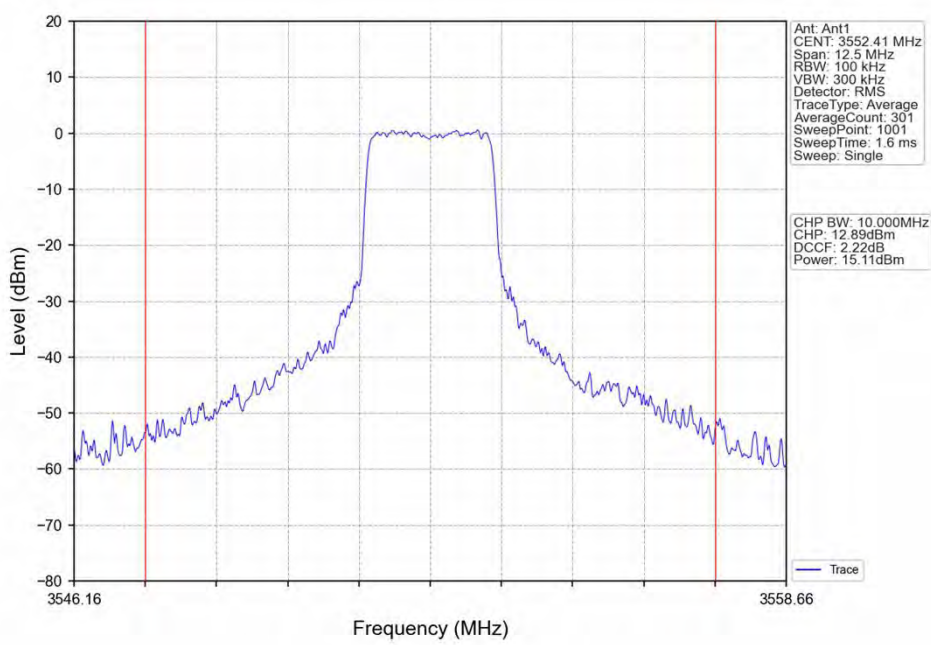




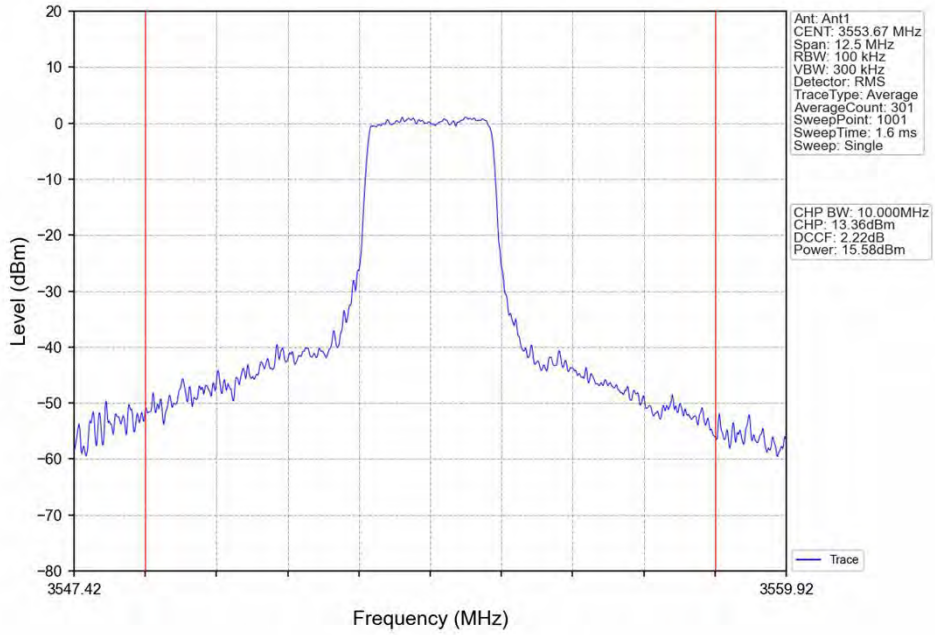
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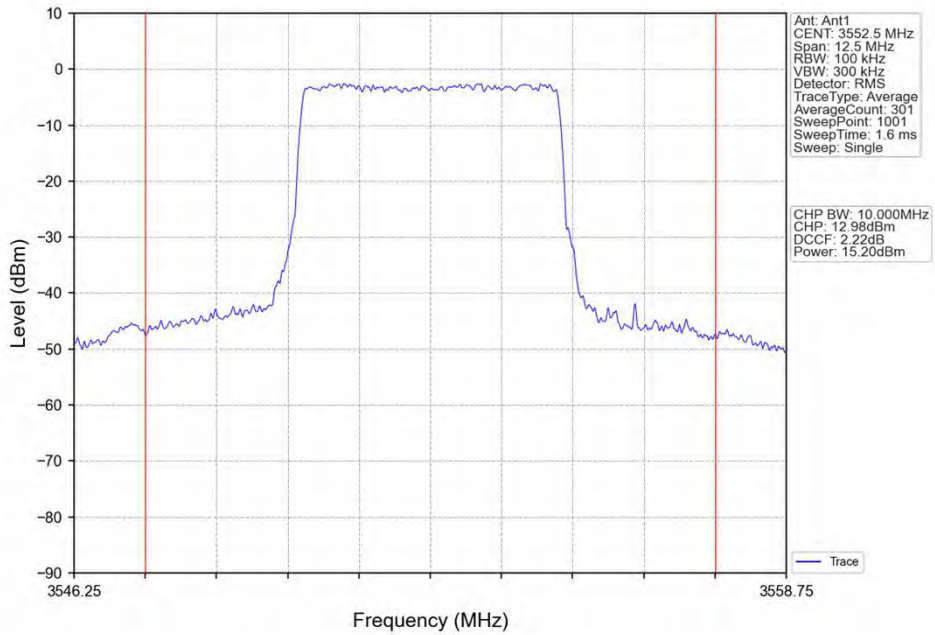
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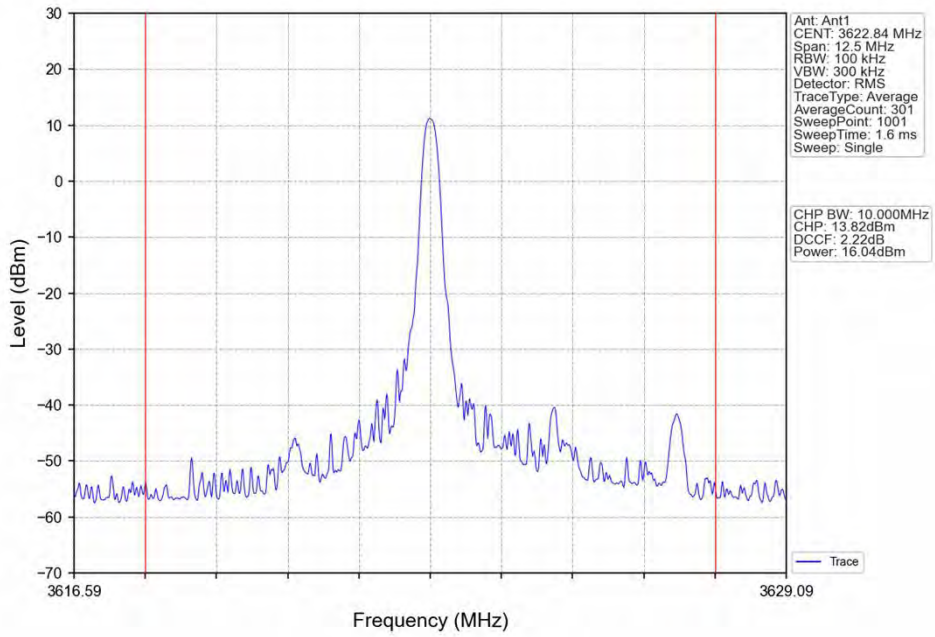
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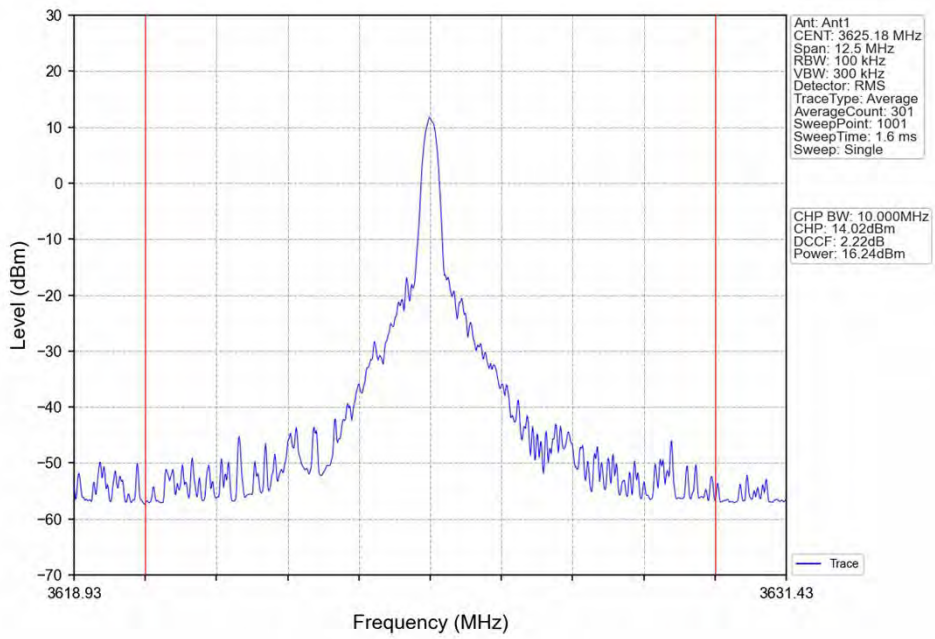
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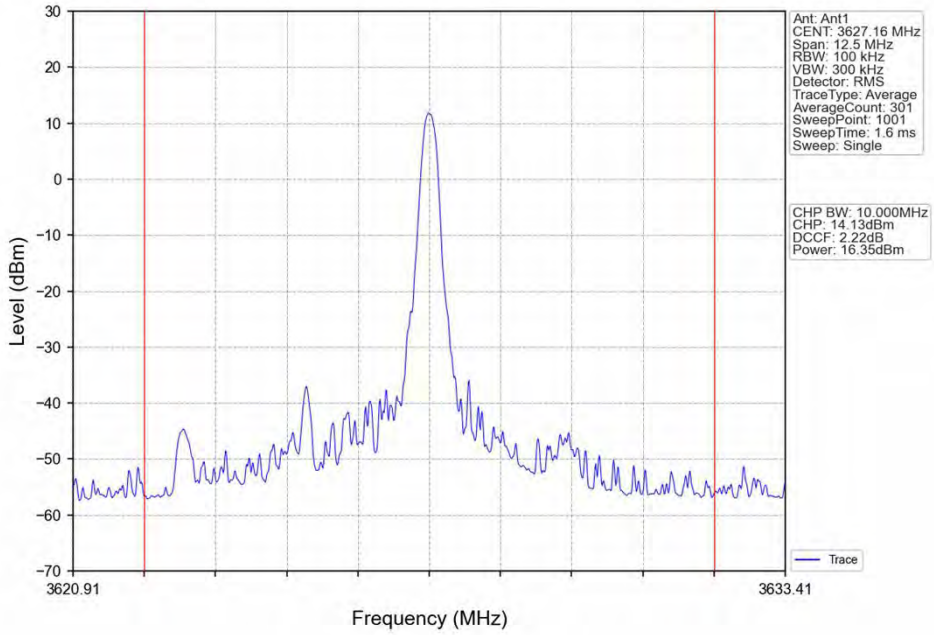
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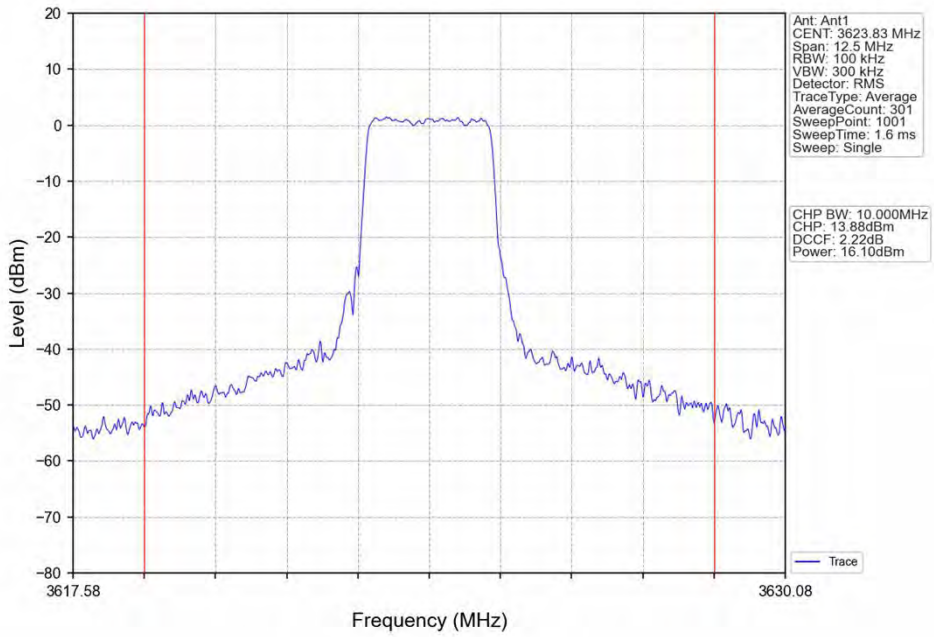
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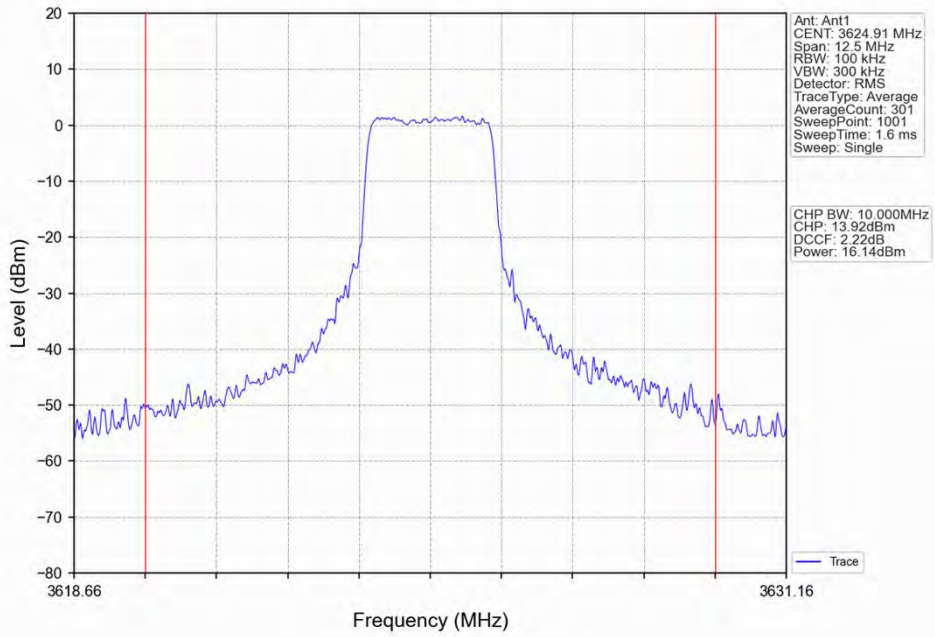
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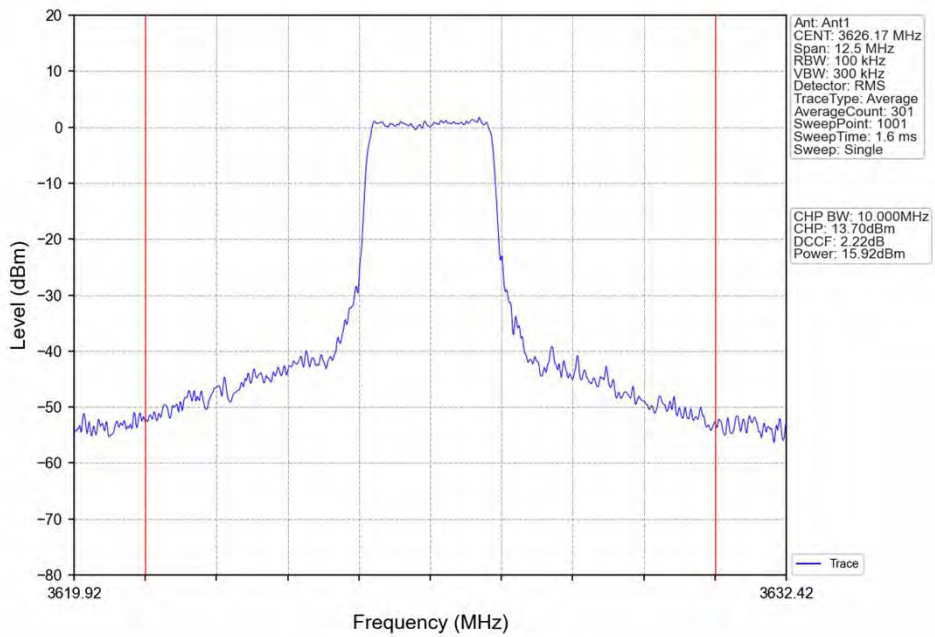
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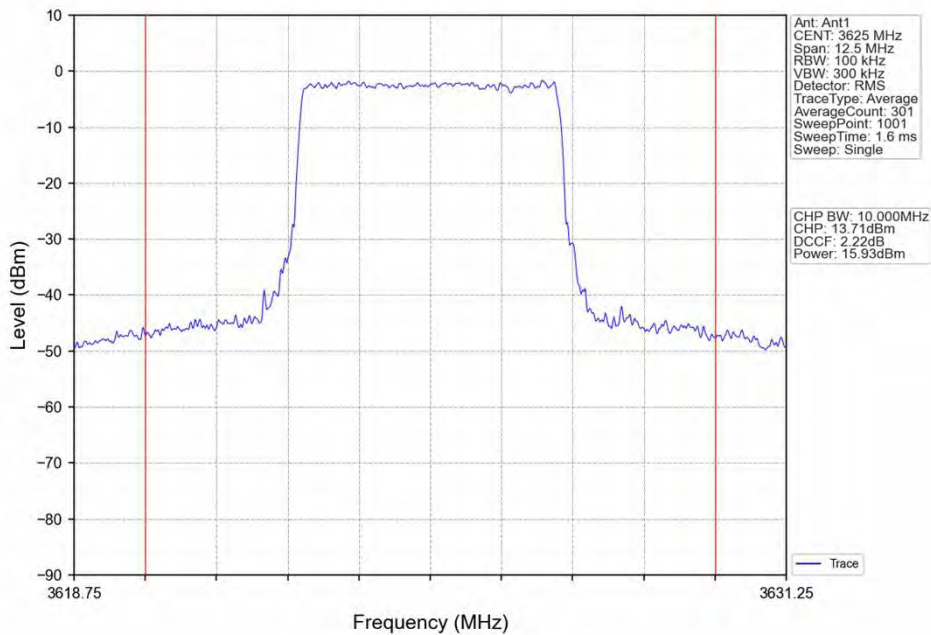
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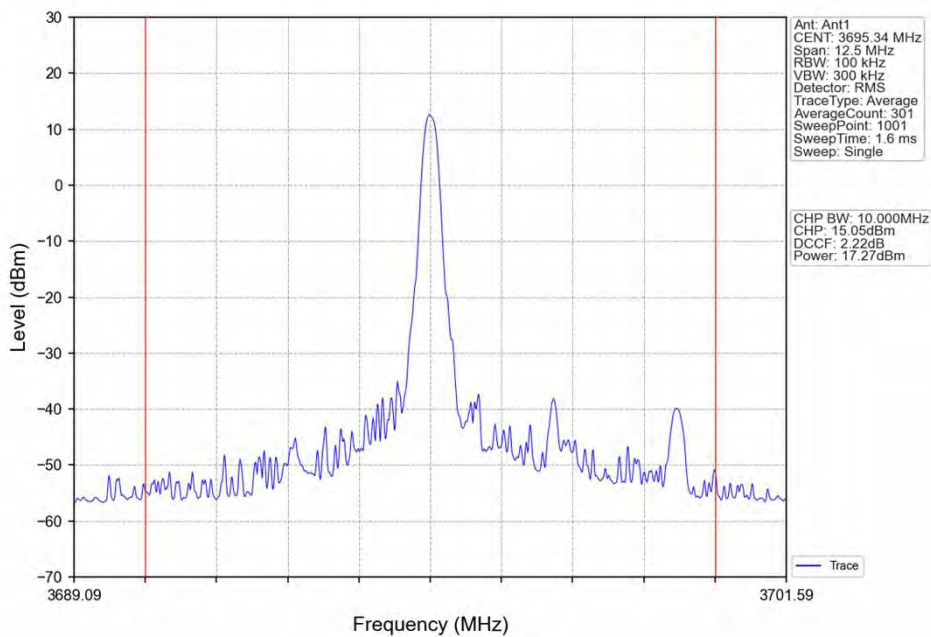
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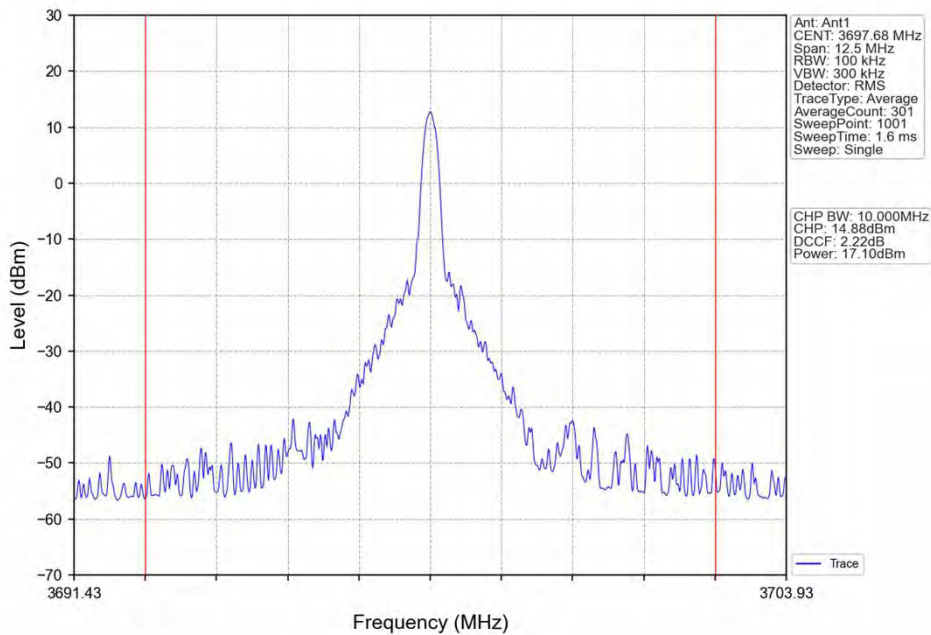
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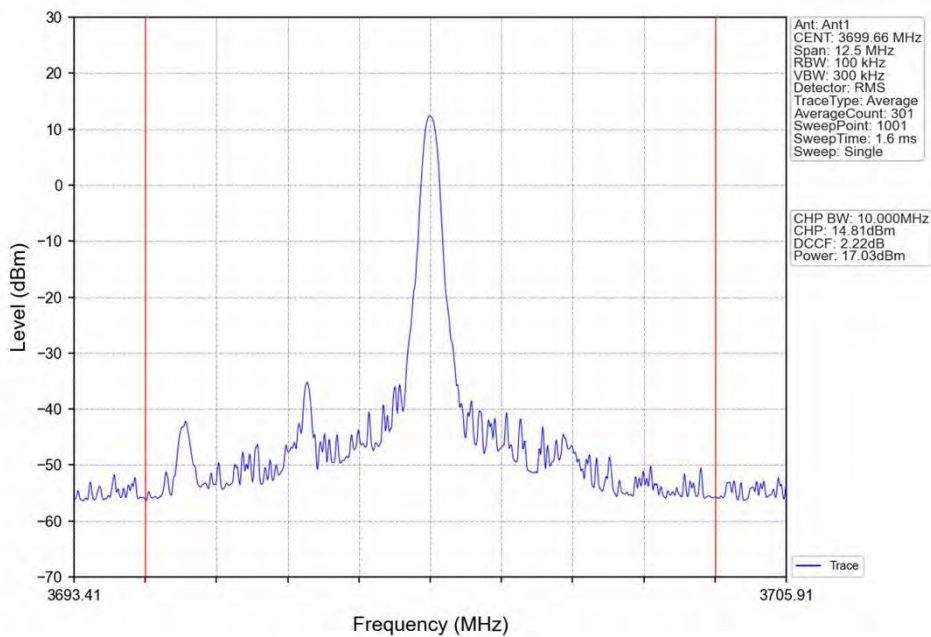
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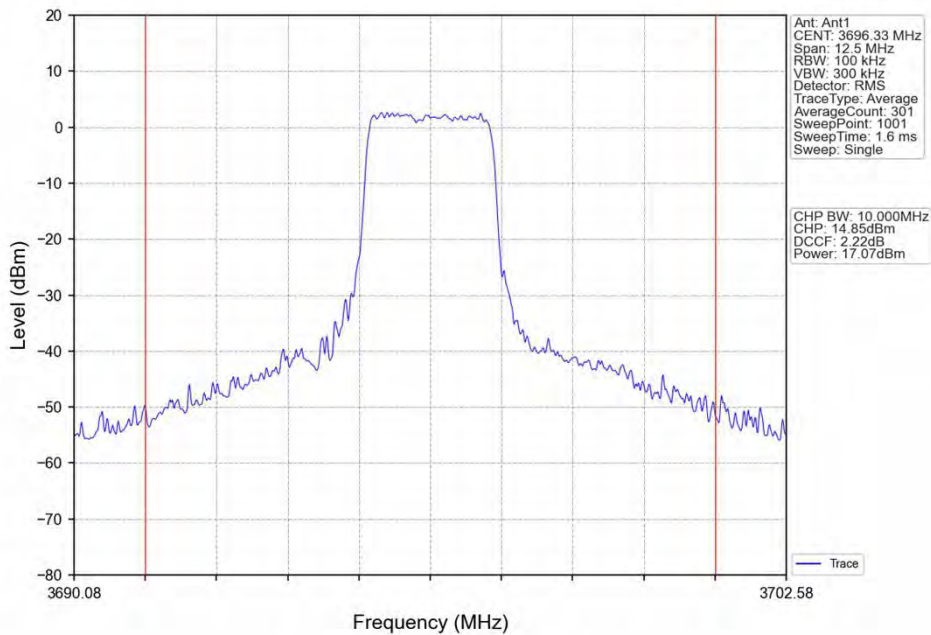
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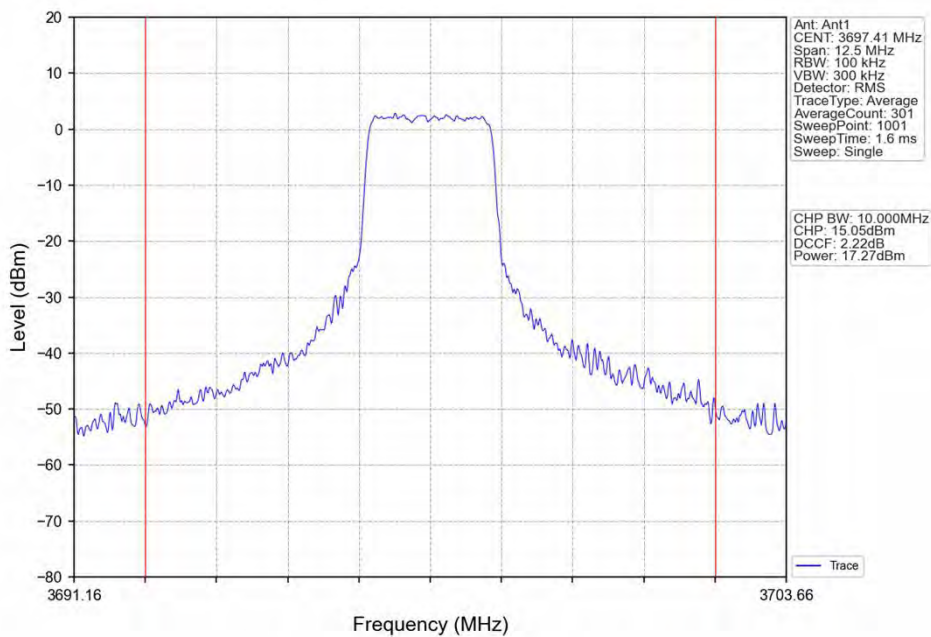
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Band48 5MHz 16QAM HCH 3697.5MHz RB 12 0 NTNV

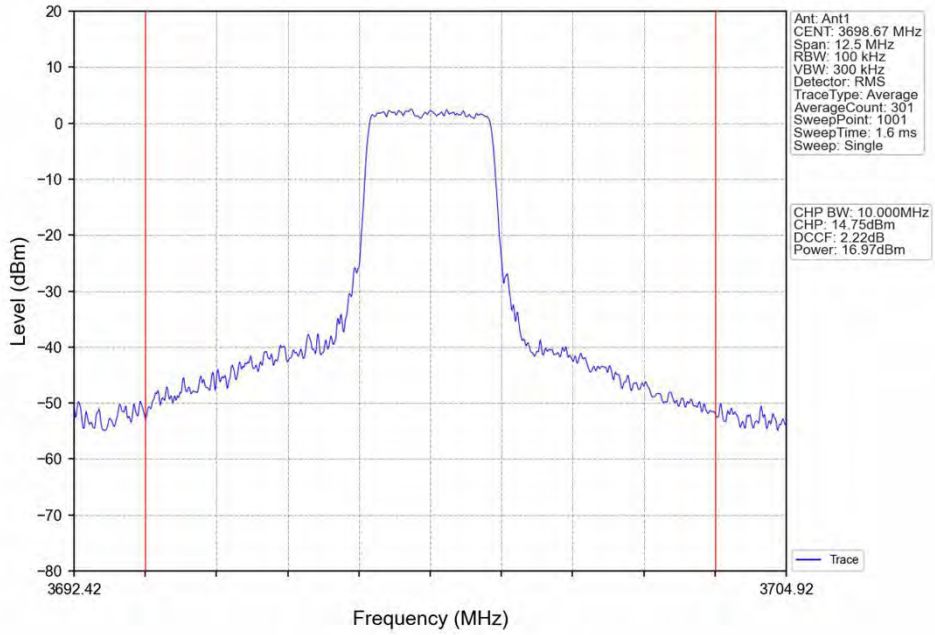


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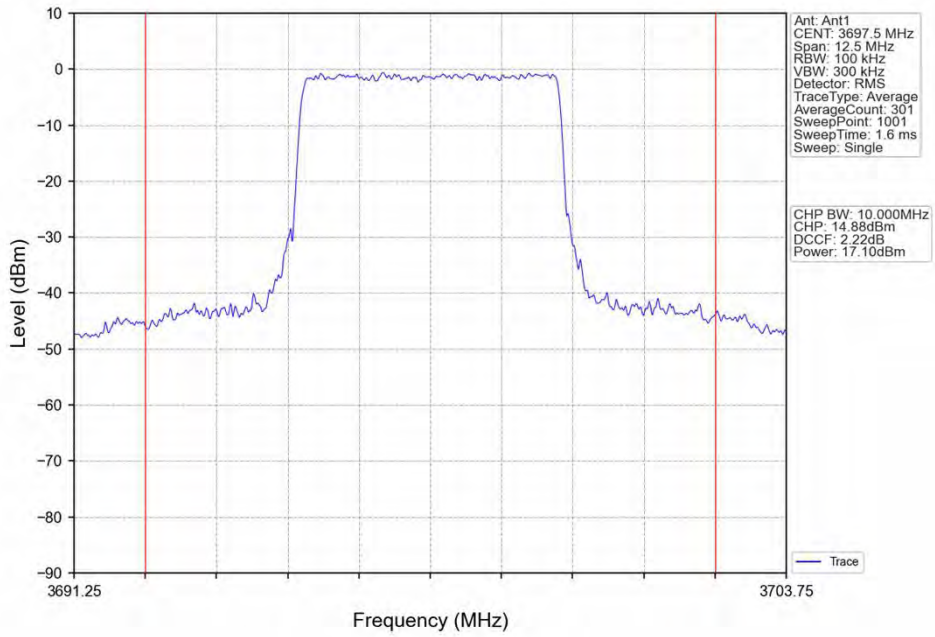




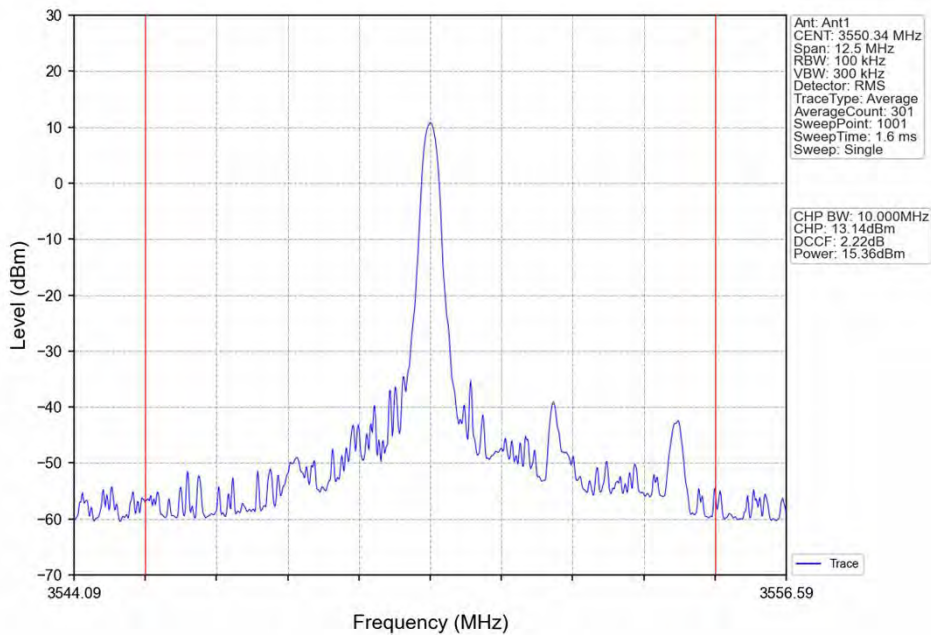
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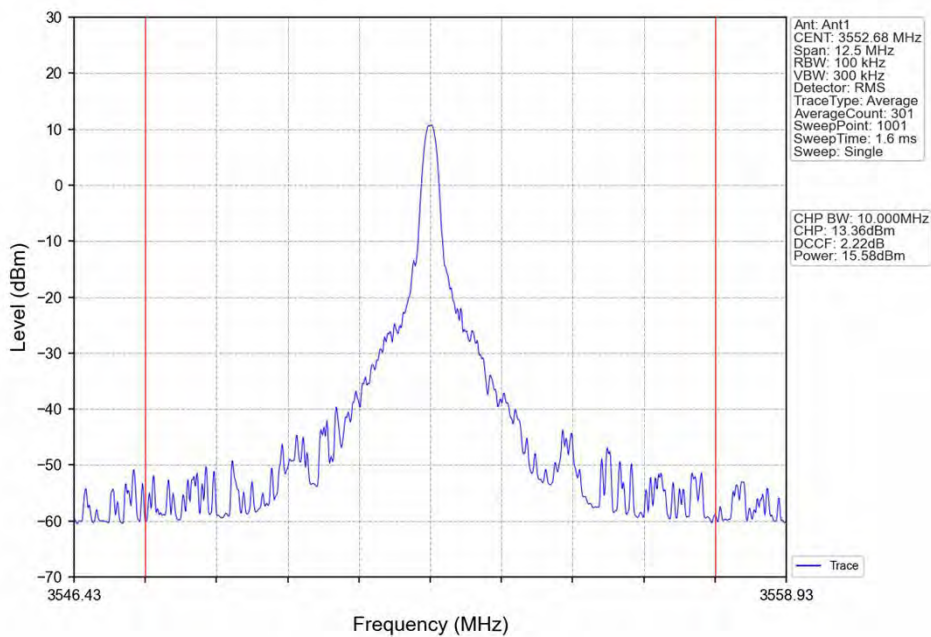
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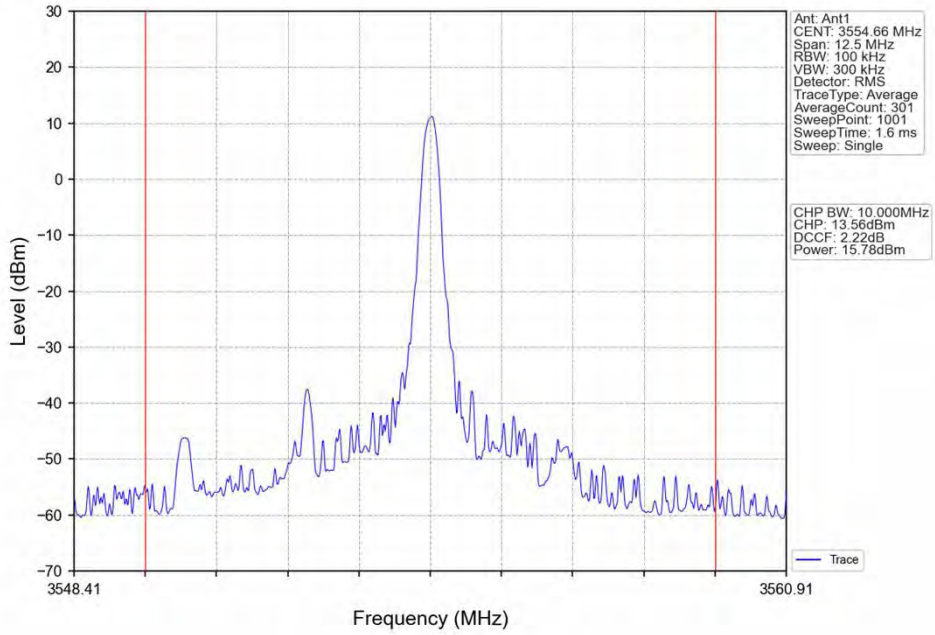
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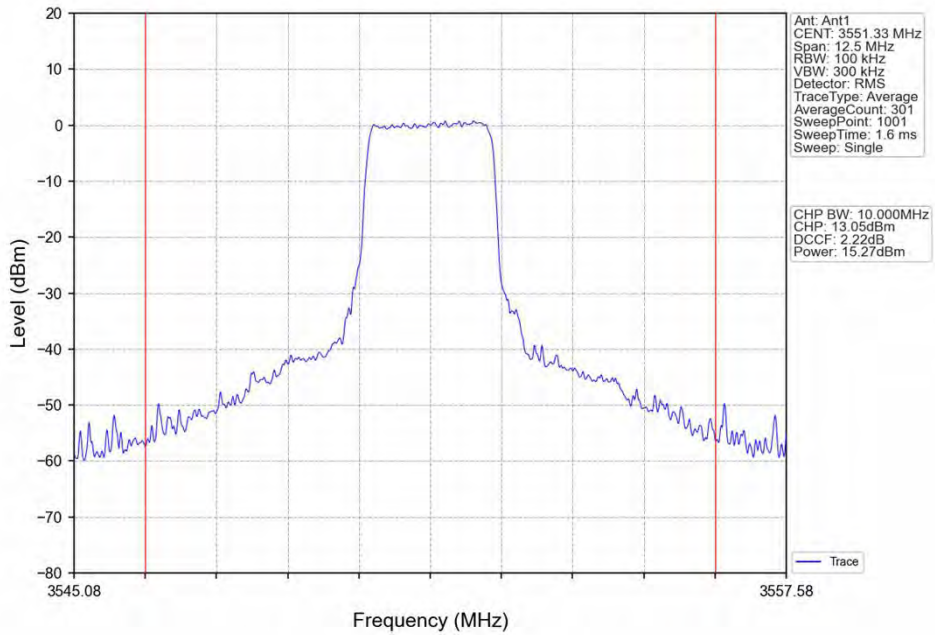
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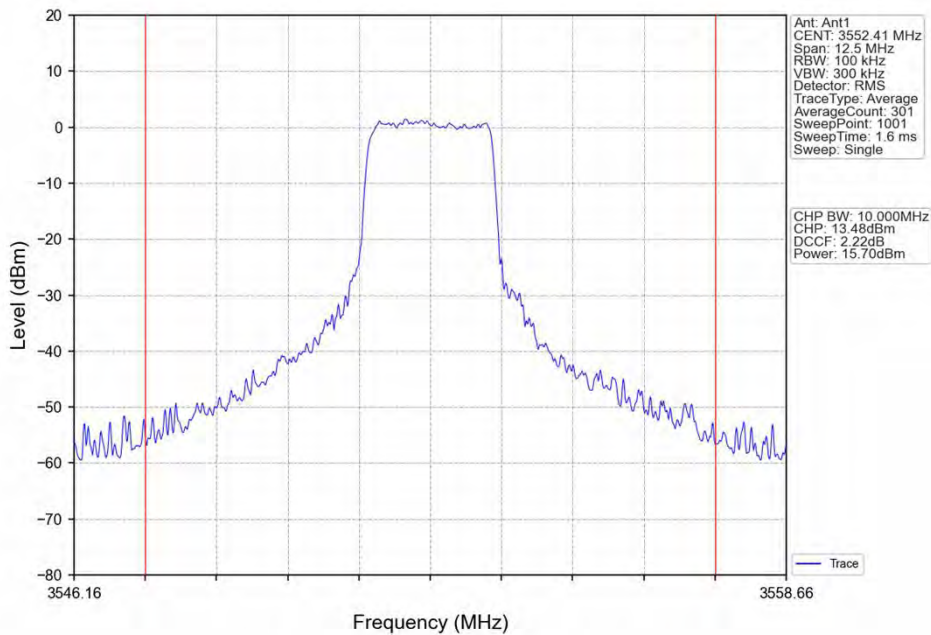
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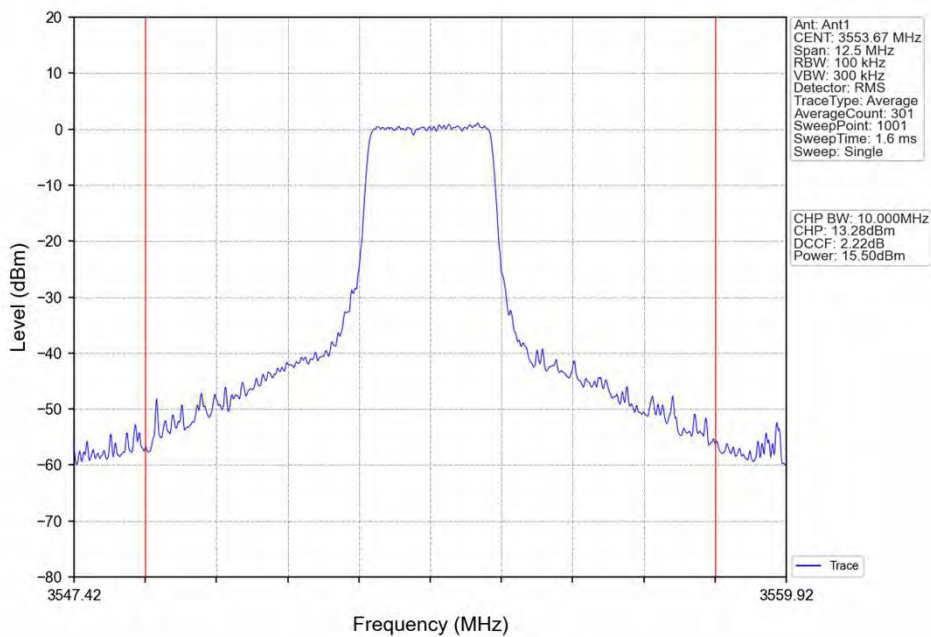
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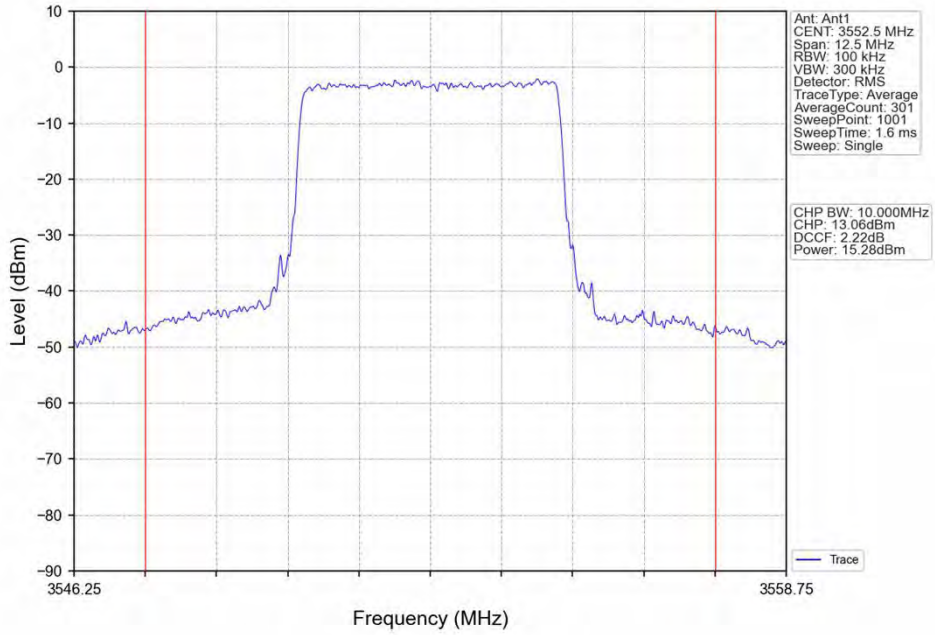
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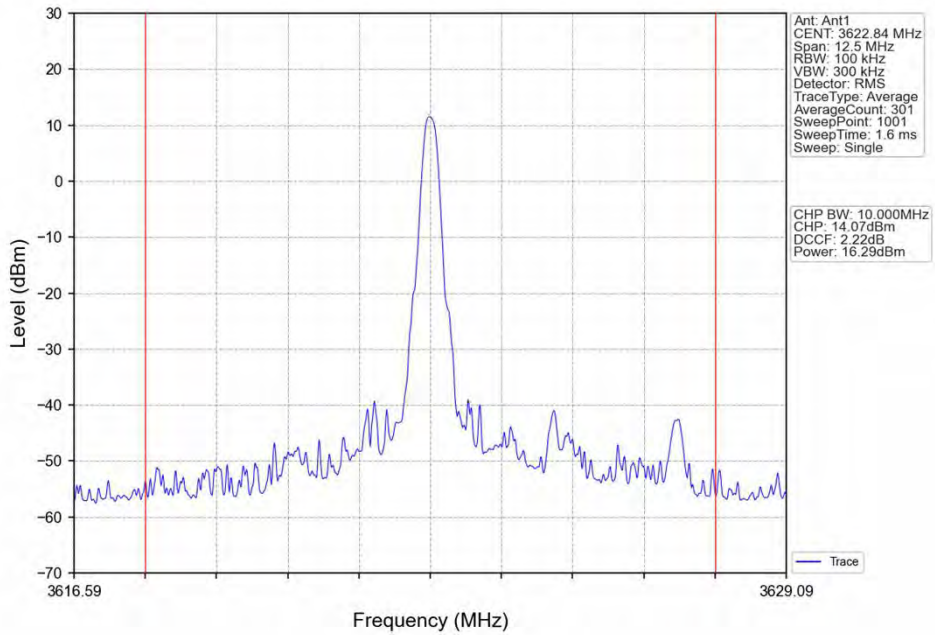
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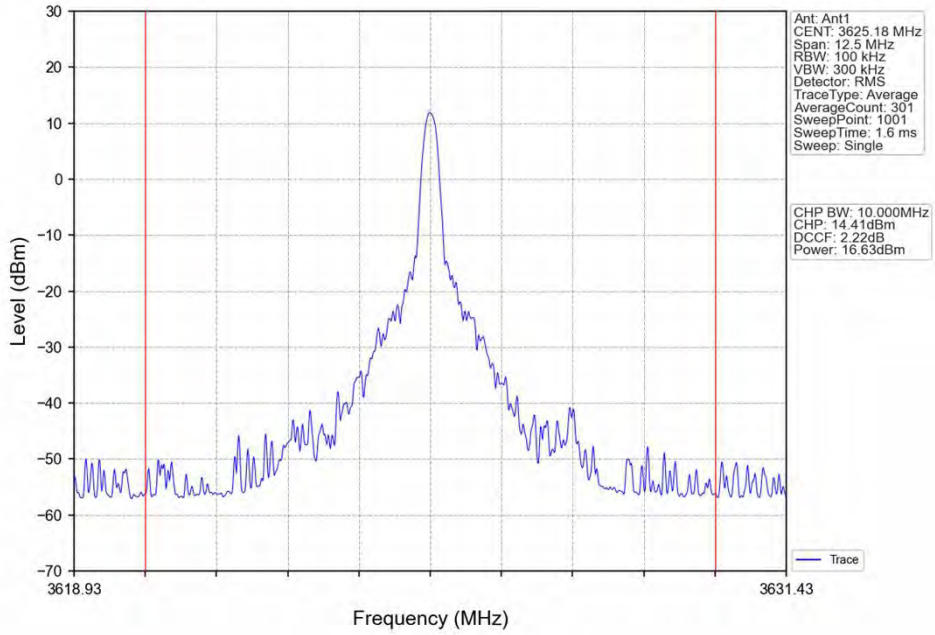
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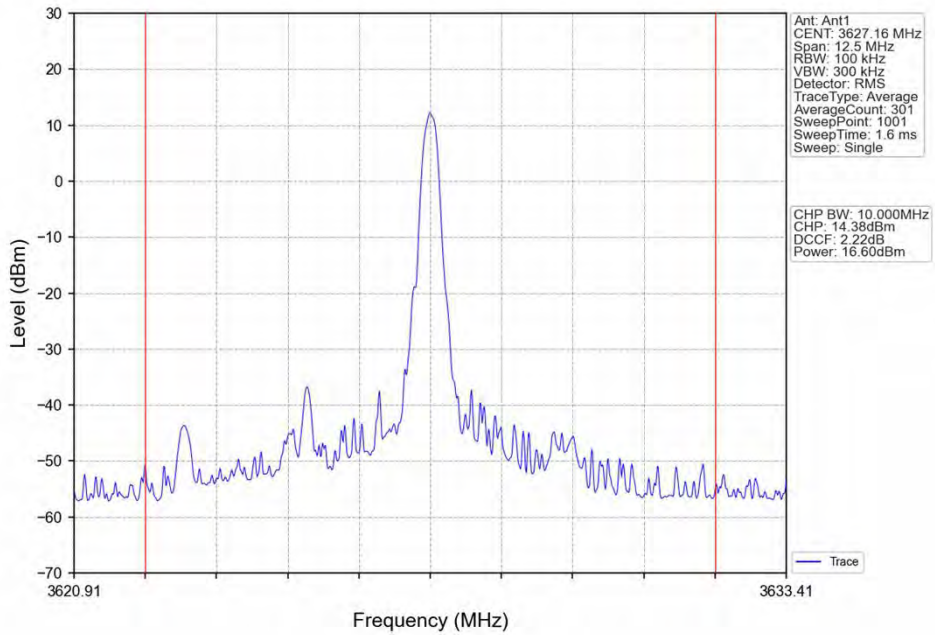
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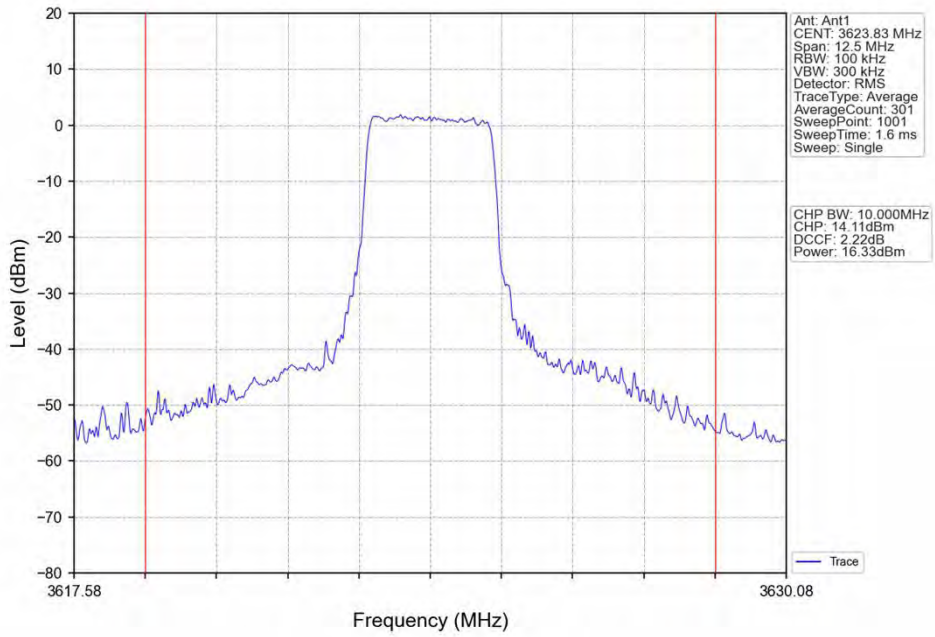
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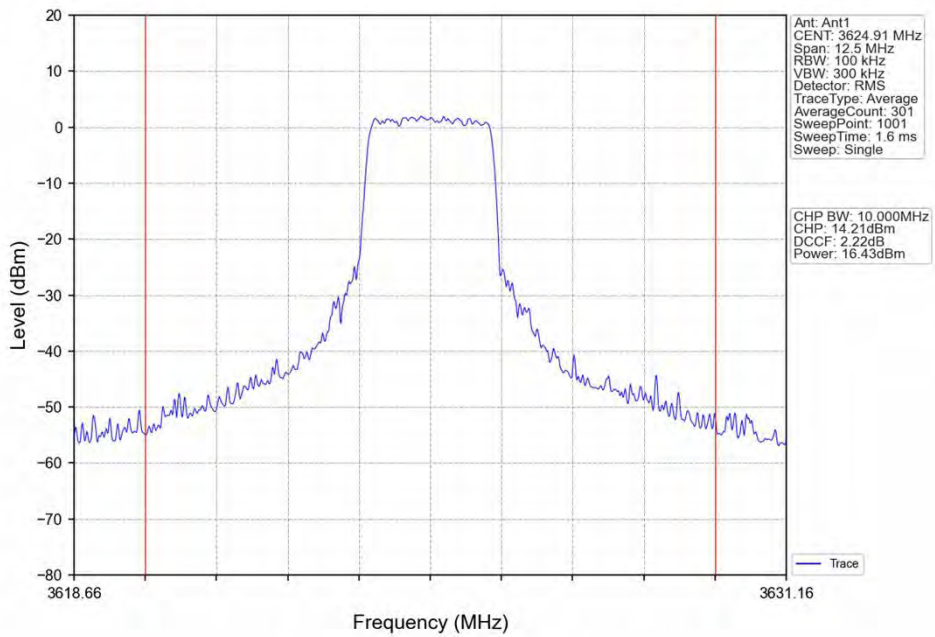
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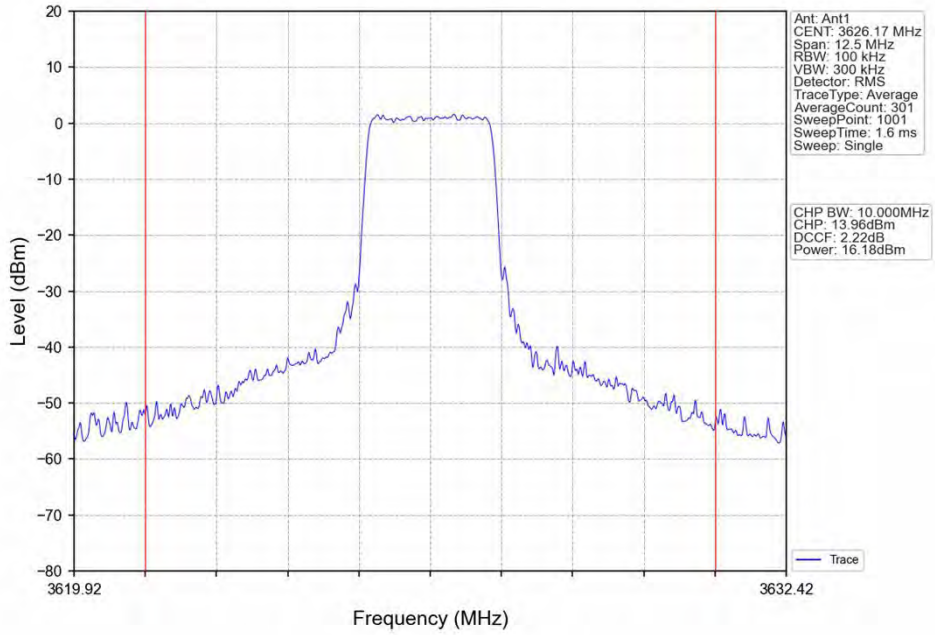
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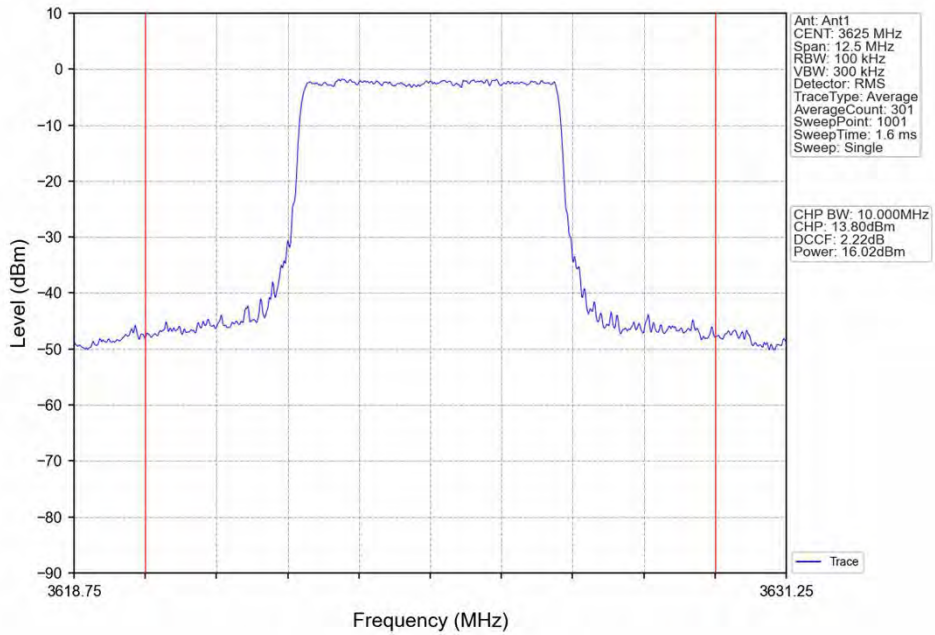
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Band48 5MHz 64QAM MCH 3625MHz RB 12 13 NTNV

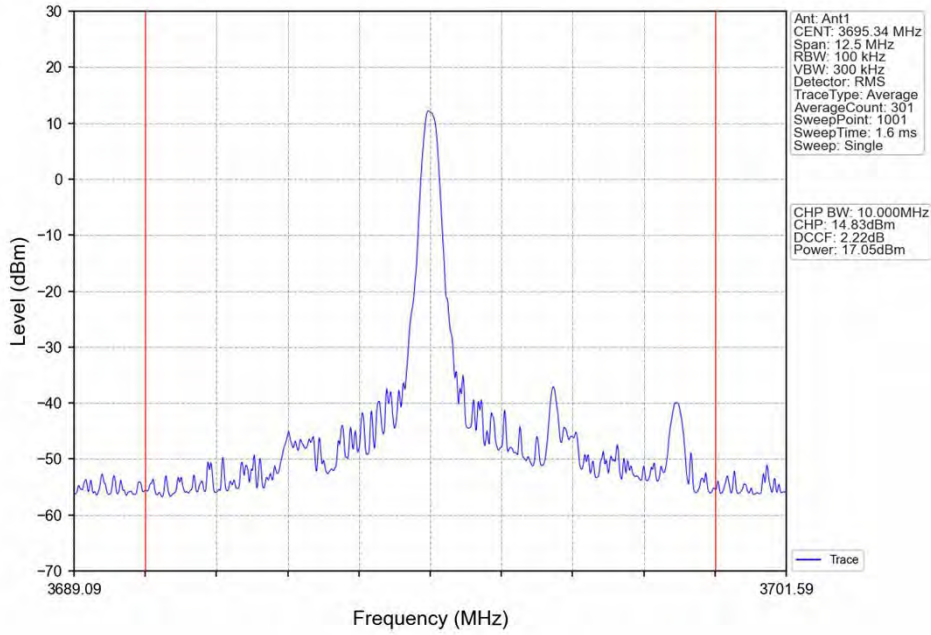


Band48 5MHz 64QAM MCH 3625MHz RB 25 0 NTNV

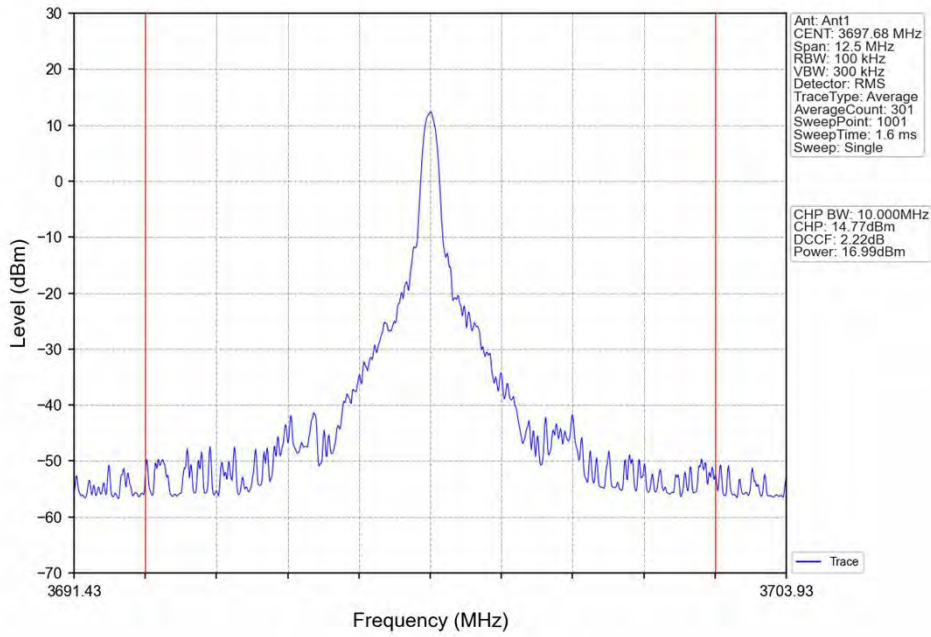




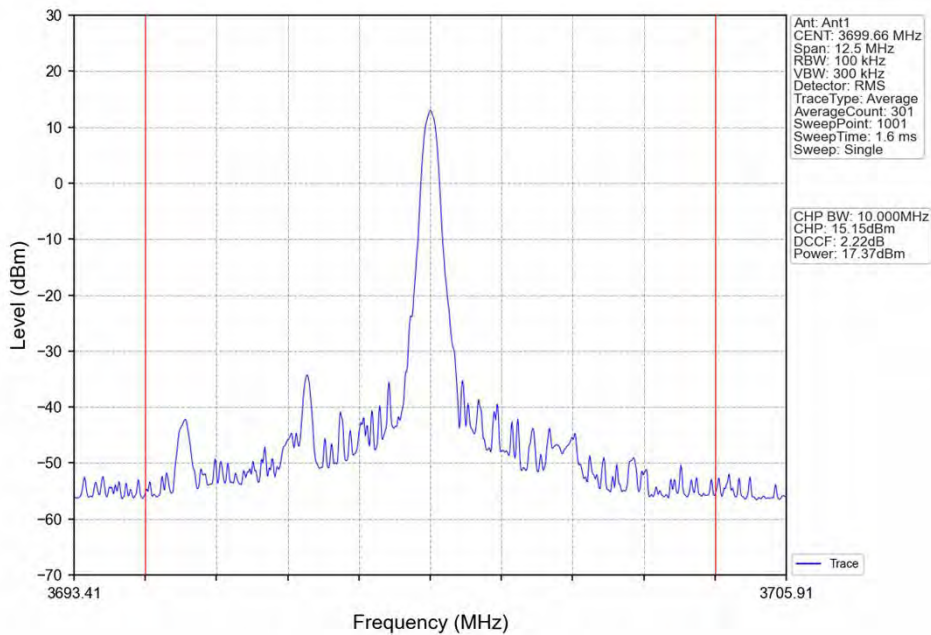
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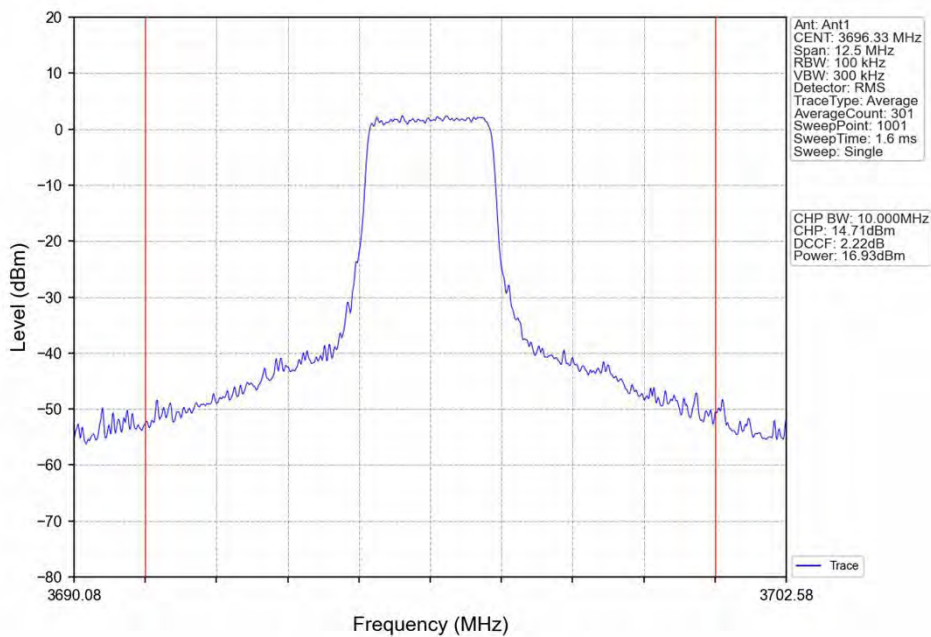
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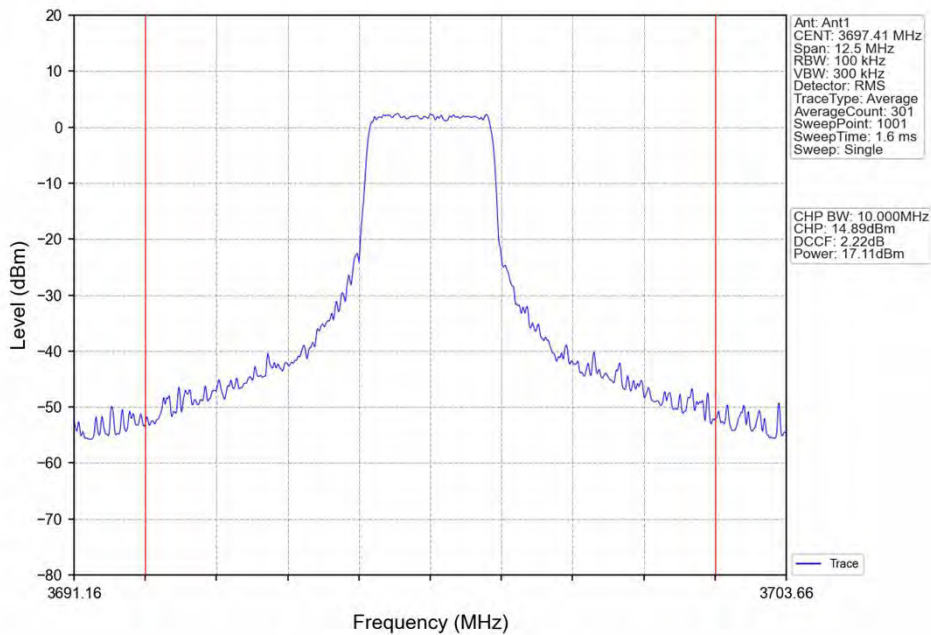
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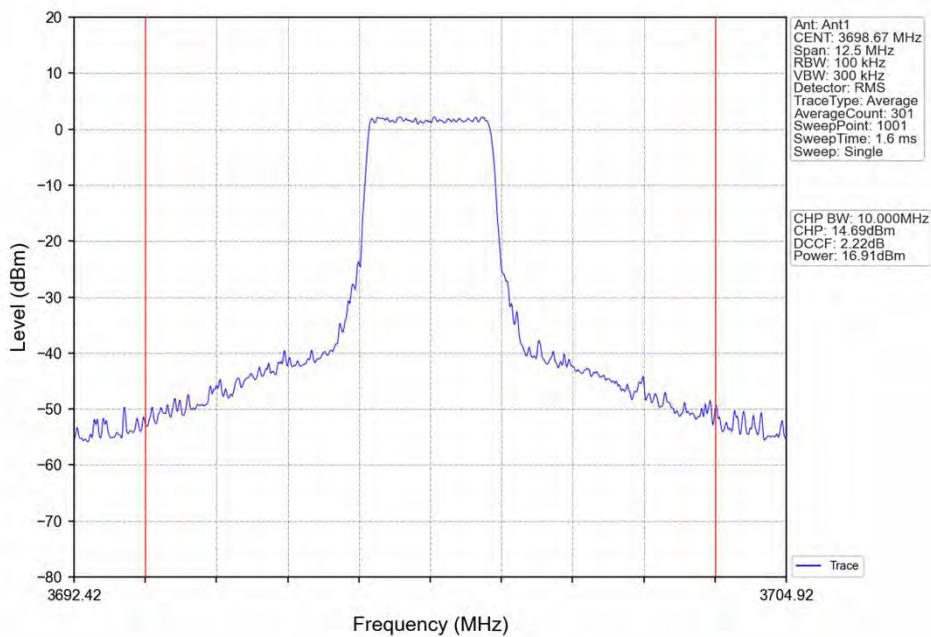
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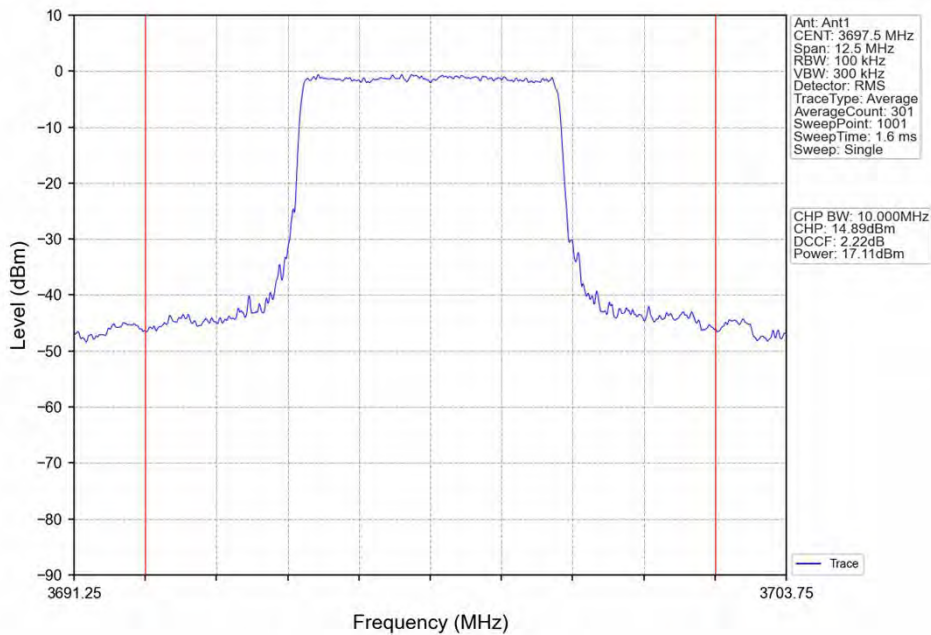
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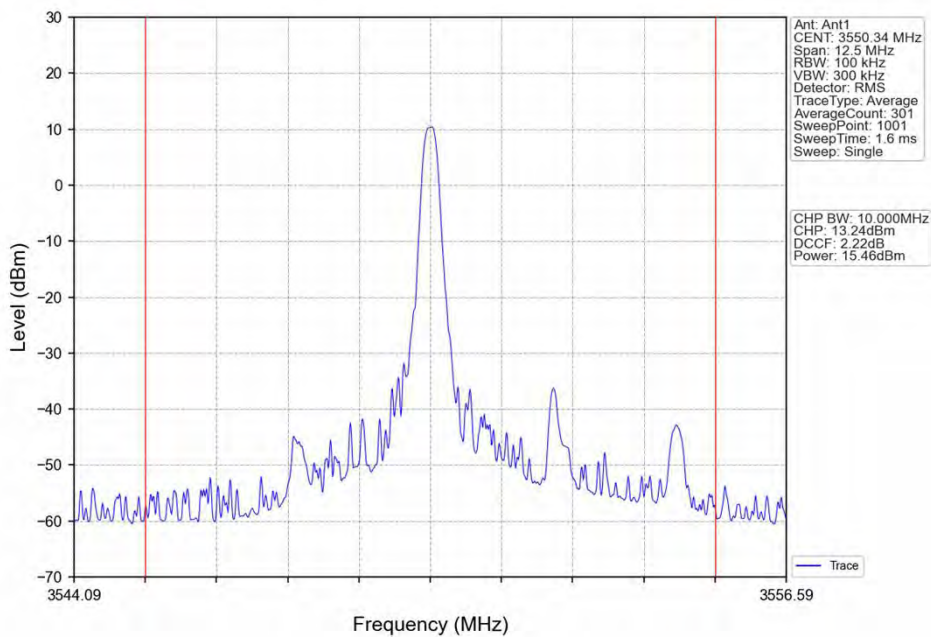
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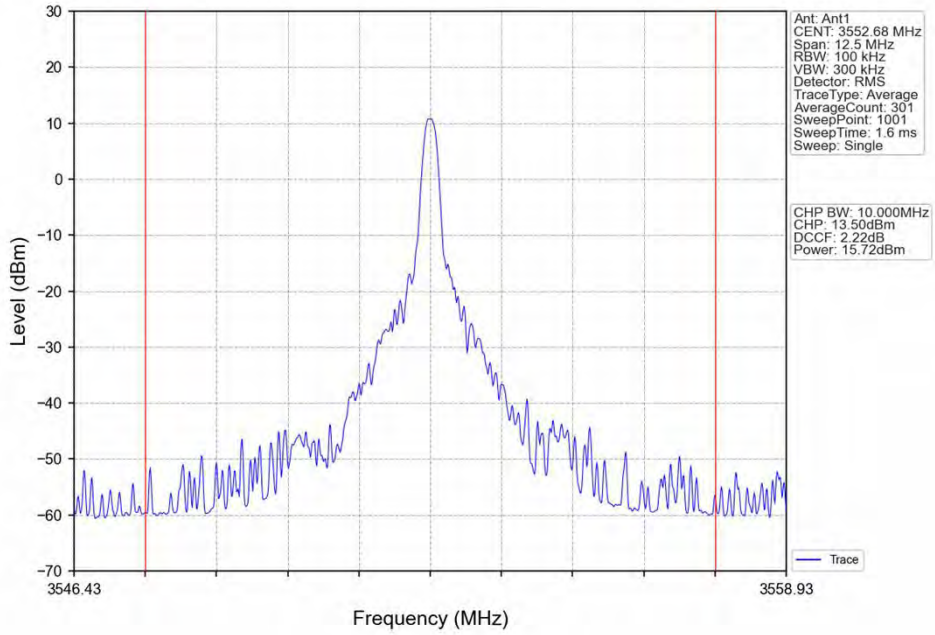
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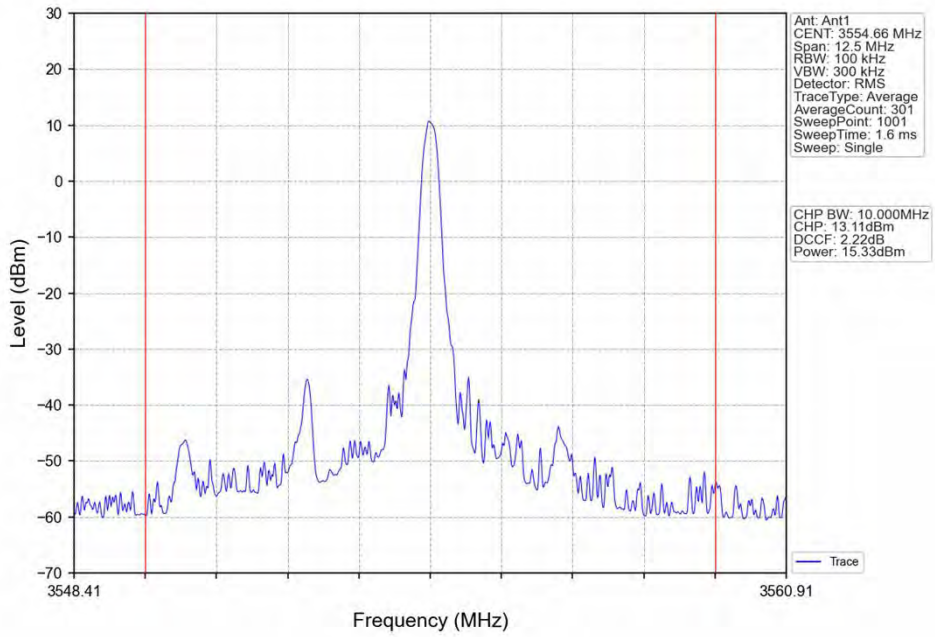
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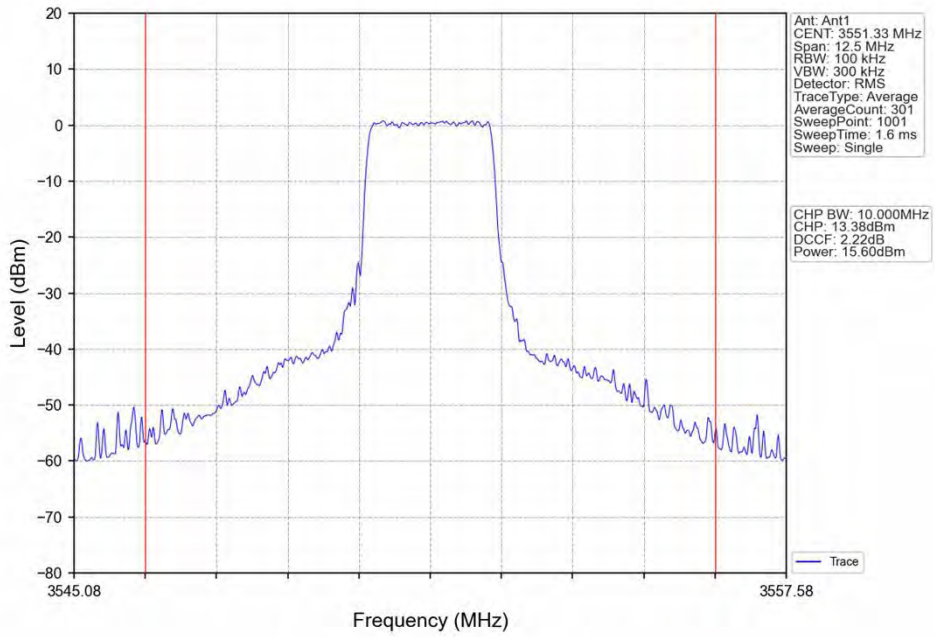
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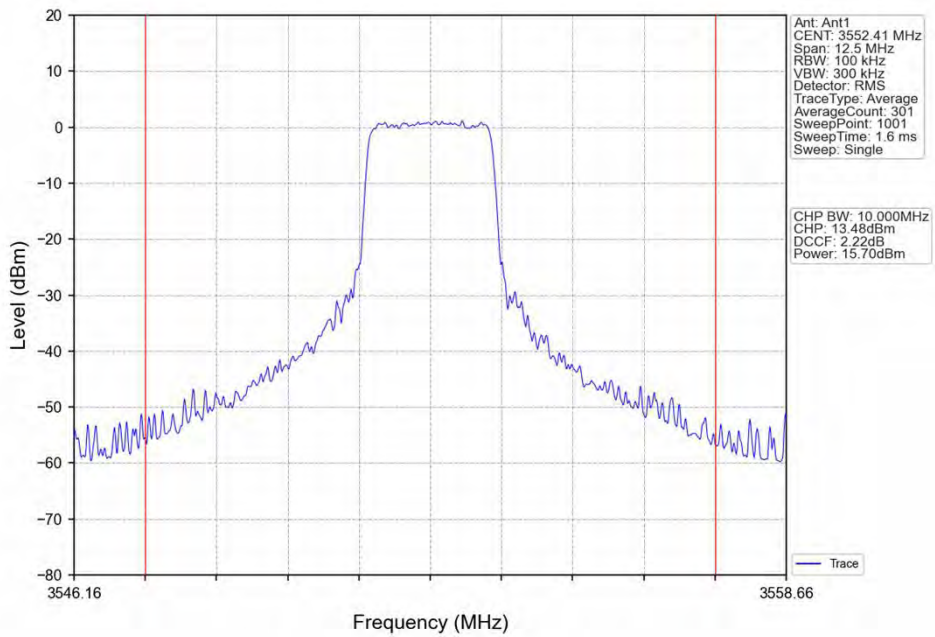
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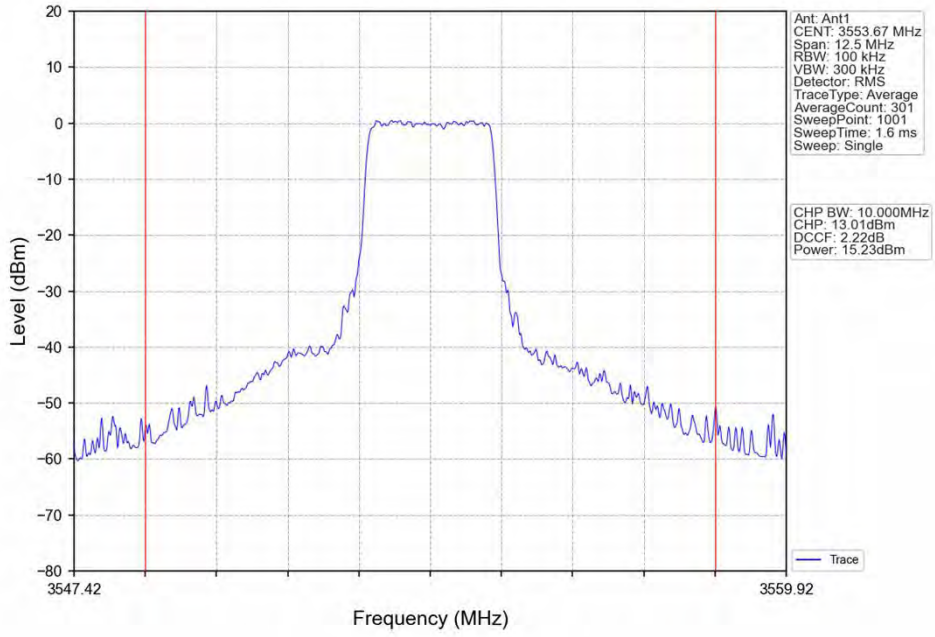
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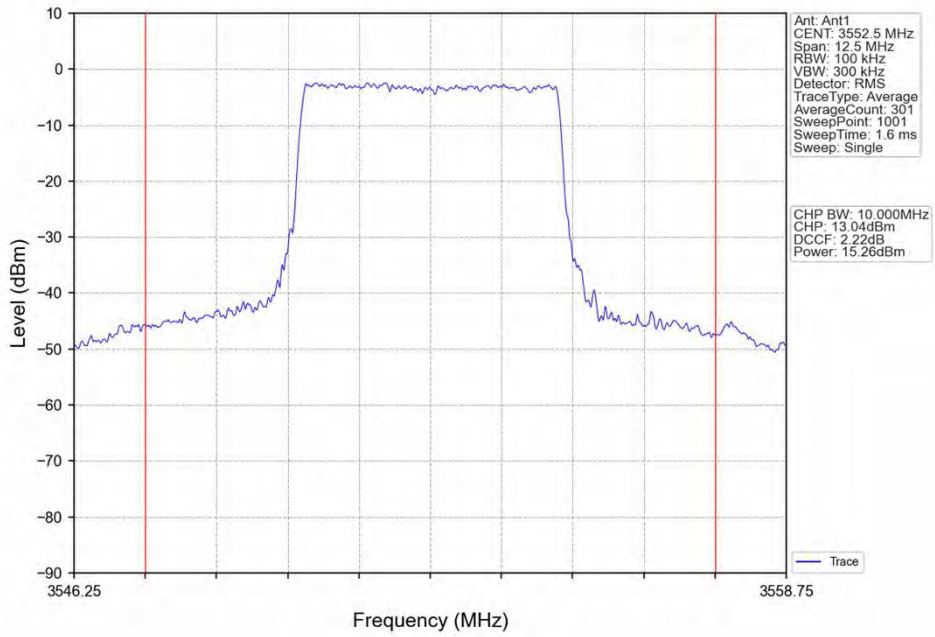
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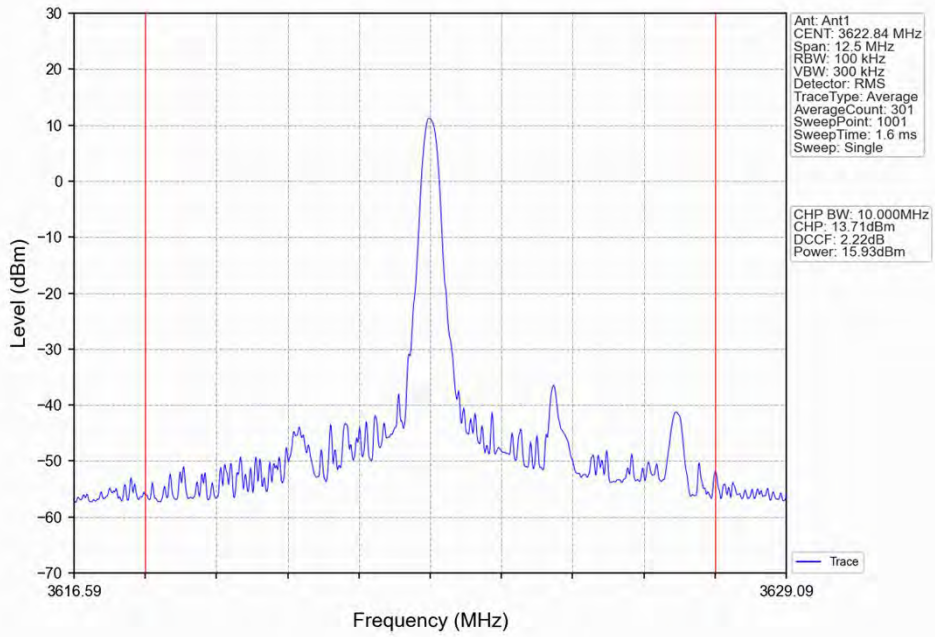
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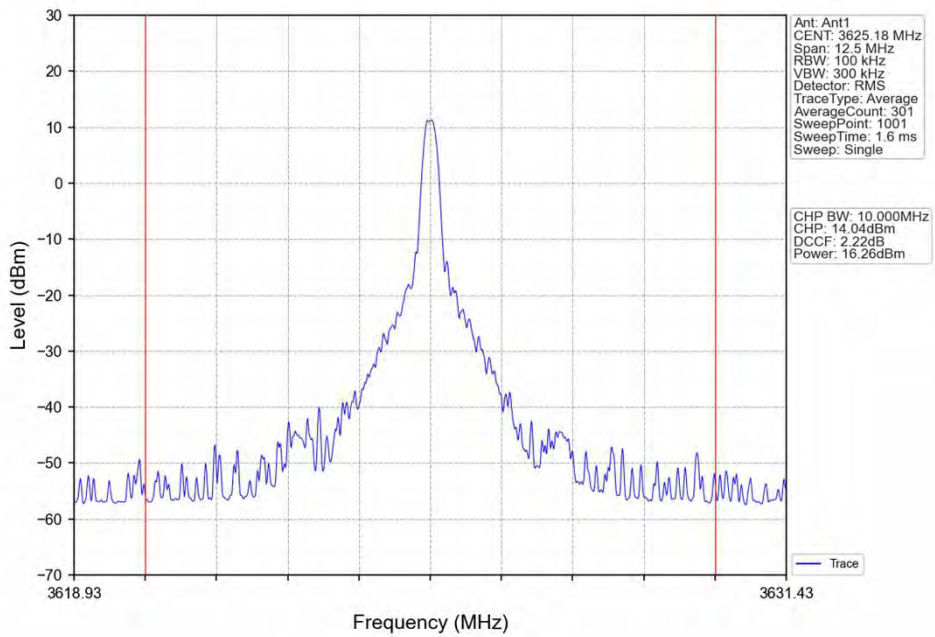
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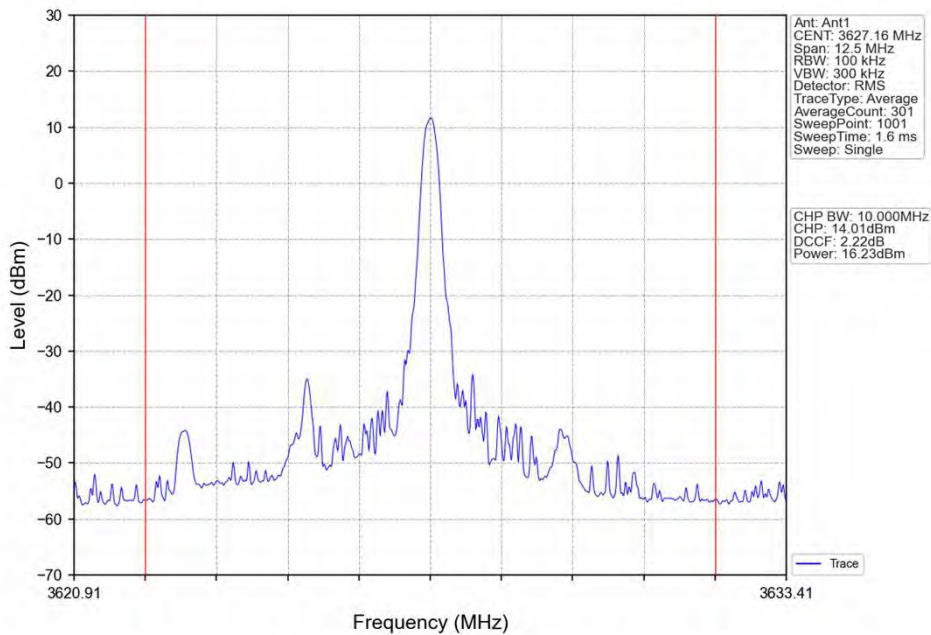


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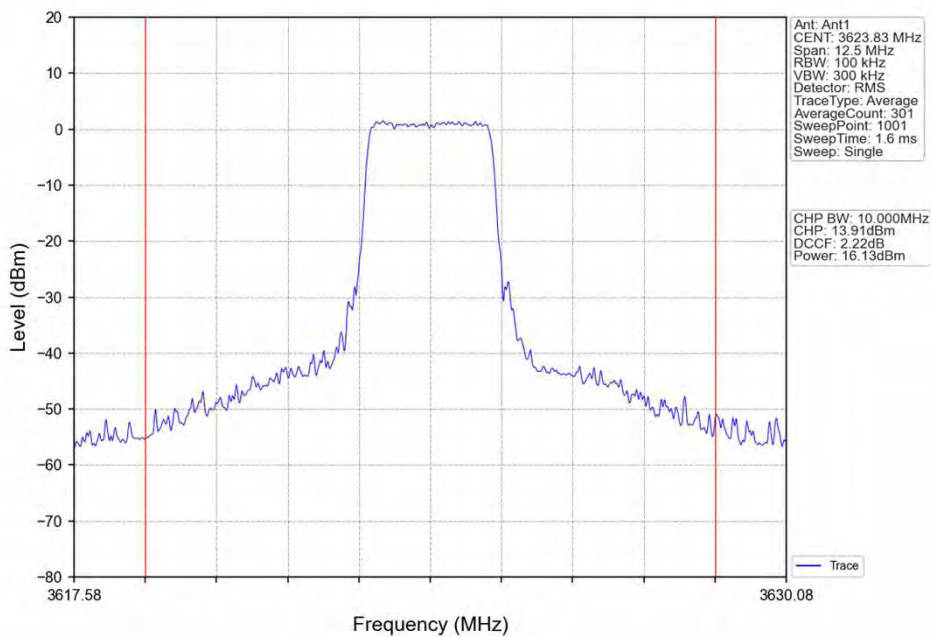




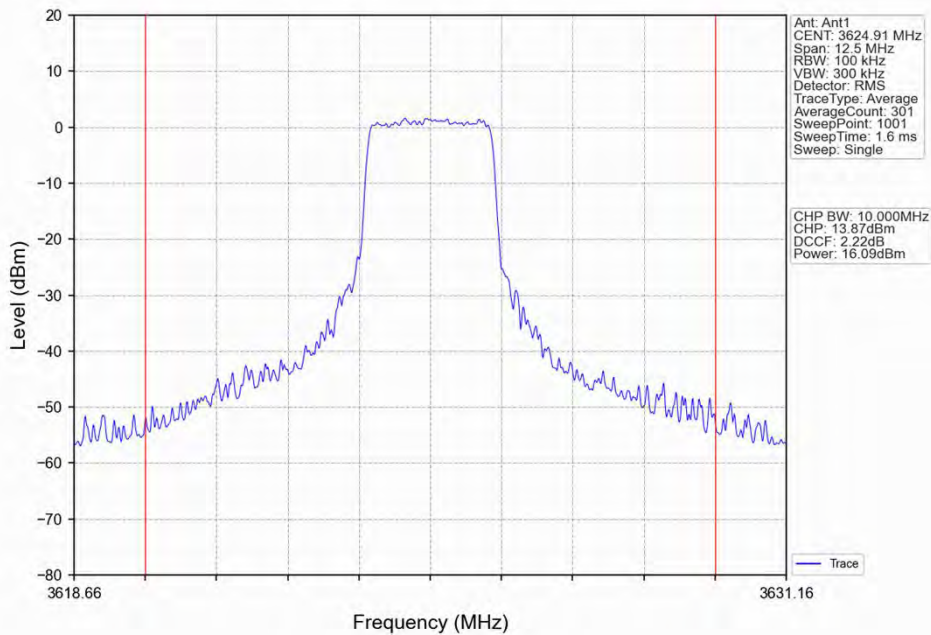
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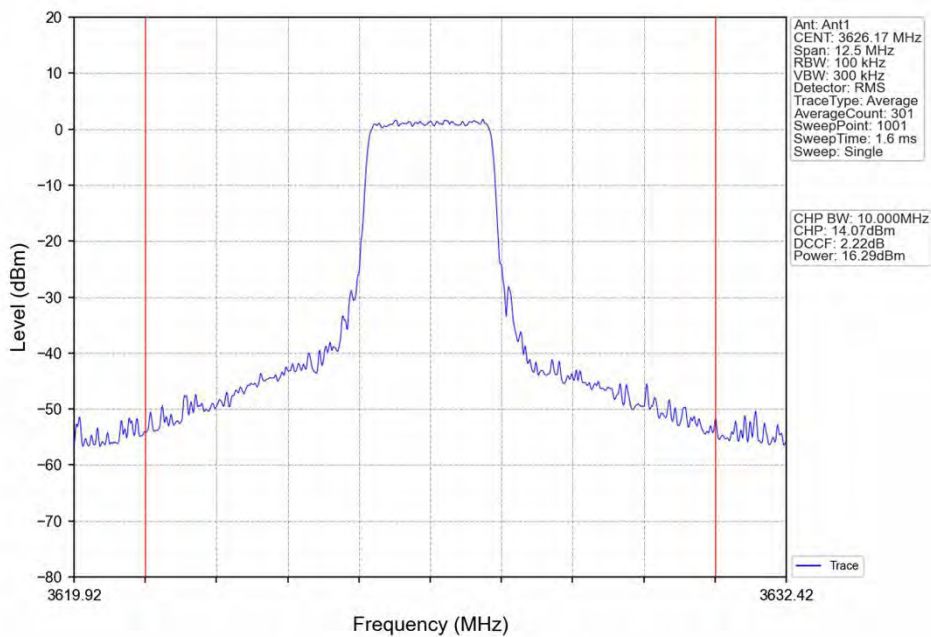
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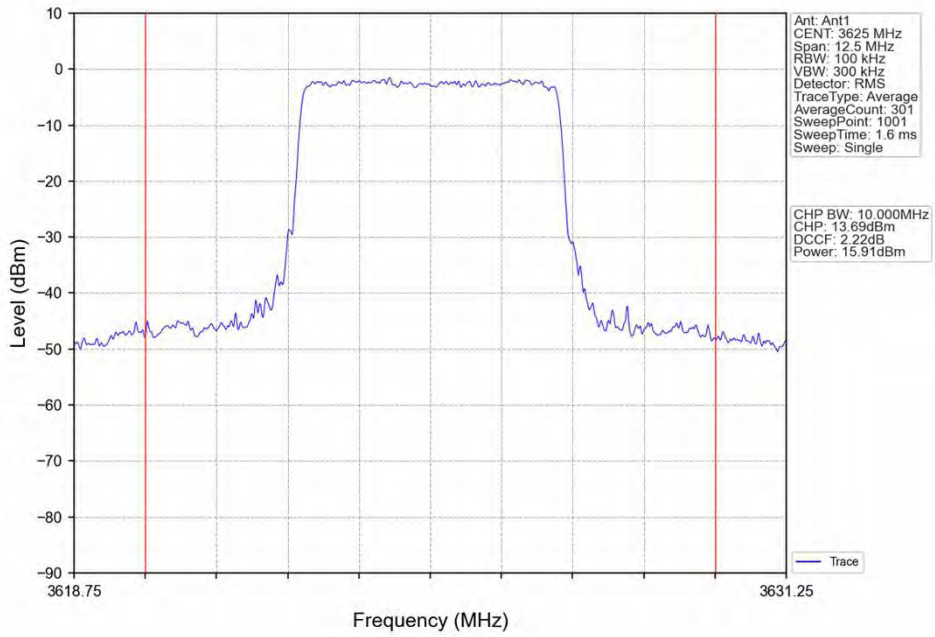
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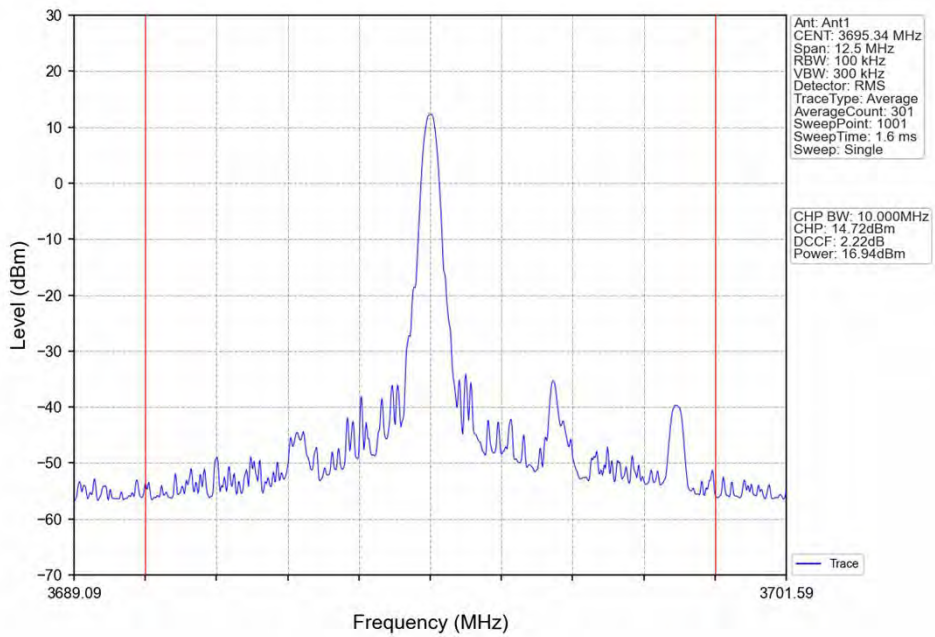
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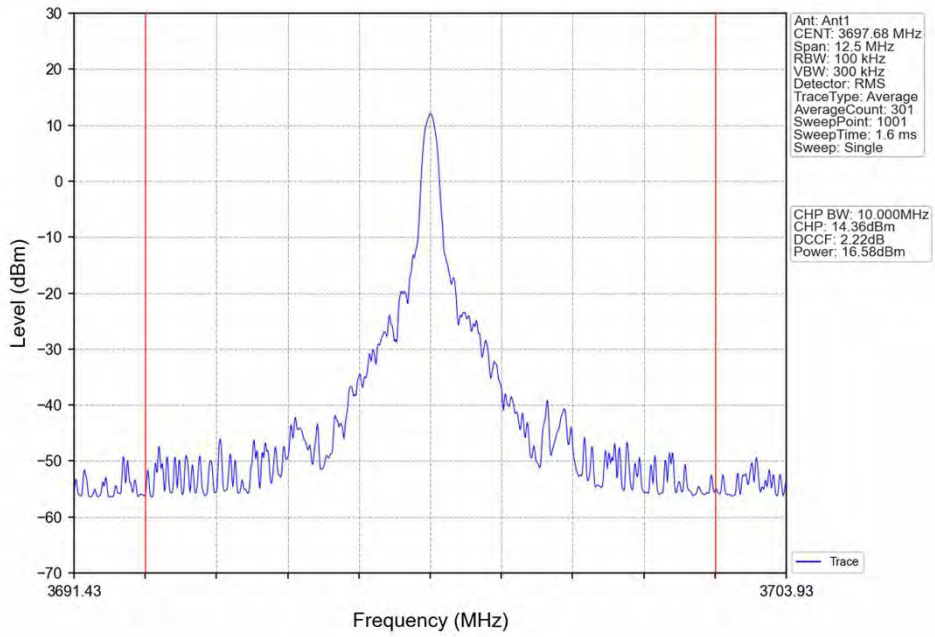
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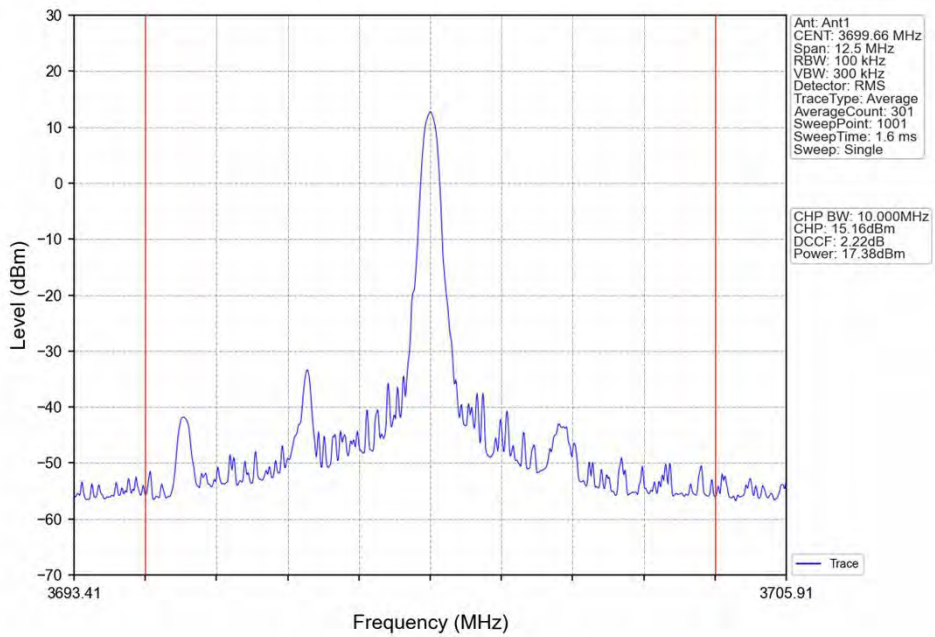
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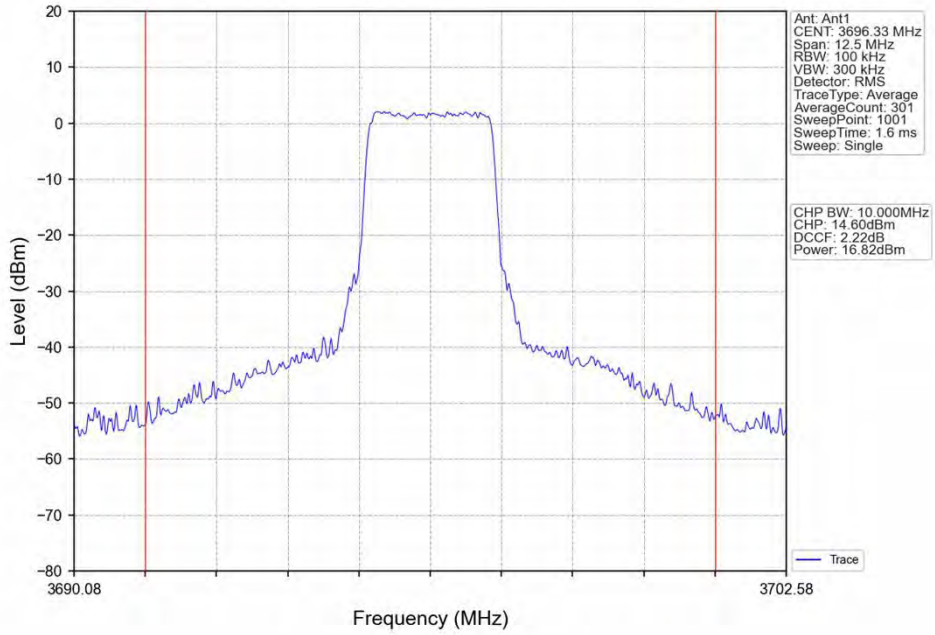
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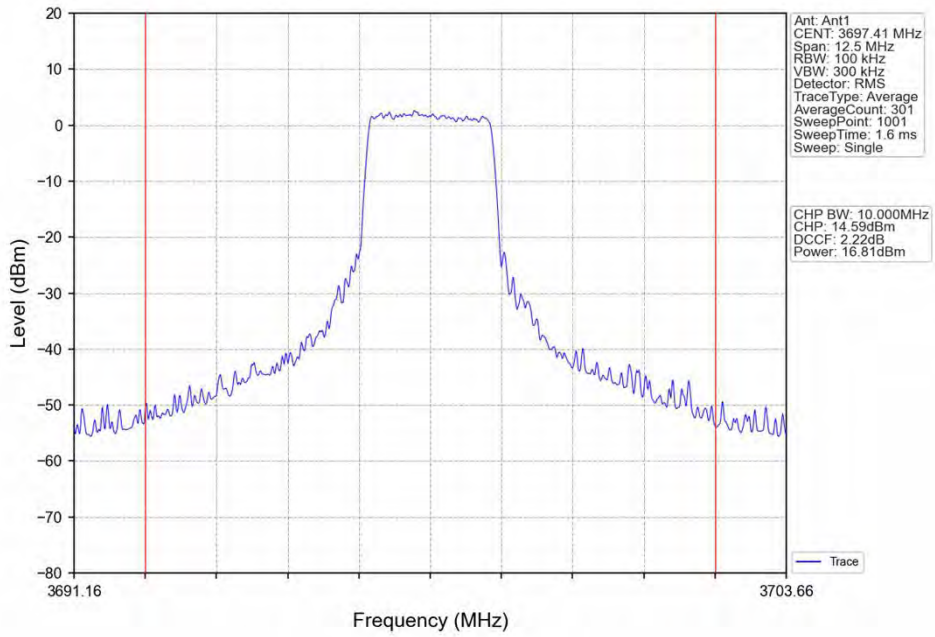
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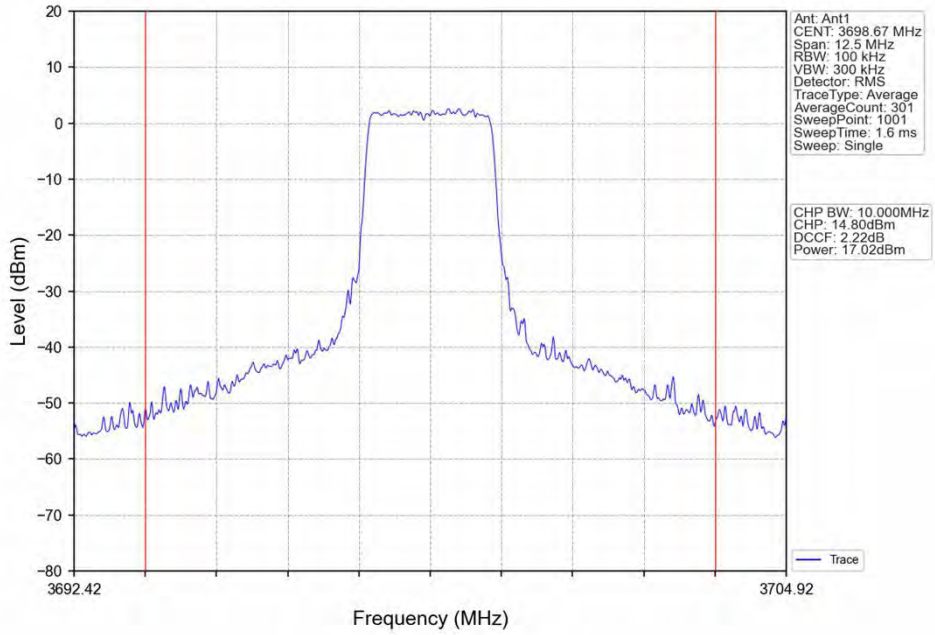
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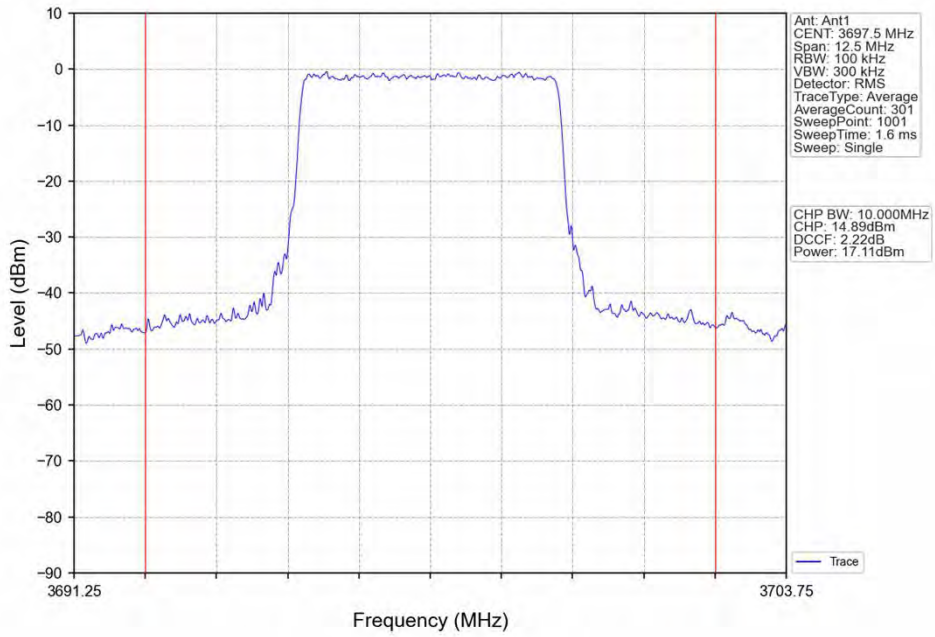
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Band48 5MHz 256QAM HCH 3697.5MHz RB 12 13 NTN



Band48 5MHz 256QAM HCH 3697.5MHz RB 25 0 NTN



### 1.3 B48\_10MHz\_EIRP

#### 1.3.1 Test Result

| Band: 48 / Bandwidth: 10MHz / NTV |                 |               |        |                           |            |                |       |         |      |      |
|-----------------------------------|-----------------|---------------|--------|---------------------------|------------|----------------|-------|---------|------|------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm/MHz) | Gain (dBi) | EIRP (dBm/MHz) |       | Verdict |      |      |
|                                   |                 | Size          | Offset |                           |            | Result         | Limit |         |      |      |
| QPSK                              | 3555            | 1             | 0      | 15.61                     | 5.33       | 20.94          | <=23  | Pass    |      |      |
|                                   |                 |               | 25     | 15.71                     | 5.33       | 21.04          | <=23  | Pass    |      |      |
|                                   |                 |               | 49     | 15.69                     | 5.33       | 21.02          | <=23  | Pass    |      |      |
|                                   |                 | 25            | 0      | 15.75                     | 5.33       | 21.08          | <=23  | Pass    |      |      |
|                                   |                 |               | 13     | 15.78                     | 5.33       | 21.11          | <=23  | Pass    |      |      |
|                                   |                 |               | 25     | 15.79                     | 5.33       | 21.12          | <=23  | Pass    |      |      |
|                                   |                 | 50            | 0      | 15.78                     | 5.33       | 21.11          | <=23  | Pass    |      |      |
|                                   |                 | 3625          | 1      | 0                         | 15.91      | 5.33           | 21.24 | <=23    | Pass |      |
|                                   |                 |               |        | 25                        | 15.90      | 5.33           | 21.23 | <=23    | Pass |      |
|                                   | 49              |               |        | 15.82                     | 5.33       | 21.15          | <=23  | Pass    |      |      |
|                                   | 25              |               | 0      | 15.77                     | 5.33       | 21.10          | <=23  | Pass    |      |      |
|                                   |                 |               | 13     | 15.85                     | 5.33       | 21.18          | <=23  | Pass    |      |      |
|                                   |                 |               | 25     | 15.83                     | 5.33       | 21.16          | <=23  | Pass    |      |      |
|                                   | 50              |               | 0      | 15.83                     | 5.33       | 21.16          | <=23  | Pass    |      |      |
|                                   | 3695            |               | 1      | 0                         | 16.44      | 5.33           | 21.77 | <=23    | Pass |      |
|                                   |                 |               |        | 25                        | 16.59      | 5.33           | 21.92 | <=23    | Pass |      |
|                                   |                 | 49            |        | 16.48                     | 5.33       | 21.81          | <=23  | Pass    |      |      |
|                                   |                 | 25            | 0      | 16.42                     | 5.33       | 21.75          | <=23  | Pass    |      |      |
|                                   |                 |               | 13     | 16.55                     | 5.33       | 21.88          | <=23  | Pass    |      |      |
|                                   |                 |               | 25     | 16.65                     | 5.33       | 21.98          | <=23  | Pass    |      |      |
|                                   |                 | 50            | 0      | 16.45                     | 5.33       | 21.78          | <=23  | Pass    |      |      |
|                                   |                 | 16QAM         | 3555   | 1                         | 0          | 15.61          | 5.33  | 20.94   | <=23 | Pass |
|                                   |                 |               |        |                           | 25         | 15.74          | 5.33  | 21.07   | <=23 | Pass |
|                                   | 49              |               |        |                           | 15.63      | 5.33           | 20.96 | <=23    | Pass |      |
| 25                                | 0               |               |        | 15.77                     | 5.33       | 21.10          | <=23  | Pass    |      |      |
|                                   | 13              |               |        | 15.75                     | 5.33       | 21.08          | <=23  | Pass    |      |      |
|                                   | 25              |               |        | 15.85                     | 5.33       | 21.18          | <=23  | Pass    |      |      |
| 50                                | 0               |               |        | 15.82                     | 5.33       | 21.15          | <=23  | Pass    |      |      |
| 3625                              | 1               |               |        | 0                         | 15.73      | 5.33           | 21.06 | <=23    | Pass |      |
|                                   |                 |               |        | 25                        | 15.86      | 5.33           | 21.19 | <=23    | Pass |      |
|                                   |                 |               | 49     | 15.63                     | 5.33       | 20.96          | <=23  | Pass    |      |      |
|                                   | 25              |               | 0      | 15.85                     | 5.33       | 21.18          | <=23  | Pass    |      |      |
|                                   |                 |               | 13     | 15.93                     | 5.33       | 21.26          | <=23  | Pass    |      |      |
|                                   |                 |               | 25     | 15.90                     | 5.33       | 21.23          | <=23  | Pass    |      |      |
|                                   | 50              |               | 0      | 15.71                     | 5.33       | 21.04          | <=23  | Pass    |      |      |
|                                   | 3695            |               | 1      | 0                         | 16.55      | 5.33           | 21.88 | <=23    | Pass |      |
|                                   |                 |               |        | 25                        | 16.59      | 5.33           | 21.92 | <=23    | Pass |      |
| 49                                |                 |               |        | 16.52                     | 5.33       | 21.85          | <=23  | Pass    |      |      |
| 25                                |                 |               | 0      | 16.52                     | 5.33       | 21.85          | <=23  | Pass    |      |      |
|                                   |                 |               | 13     | 16.64                     | 5.33       | 21.97          | <=23  | Pass    |      |      |
|                                   |                 |               | 25     | 16.62                     | 5.33       | 21.95          | <=23  | Pass    |      |      |
| 50                                |                 |               | 0      | 16.51                     | 5.33       | 21.84          | <=23  | Pass    |      |      |
| 64QAM                             |                 |               | 3555   | 1                         | 0          | 16.39          | 5.33  | 21.72   | <=23 | Pass |
|                                   |                 |               |        |                           | 25         | 16.63          | 5.33  | 21.96   | <=23 | Pass |
|                                   | 49              |               |        |                           | 16.81      | 5.33           | 22.14 | <=23    | Pass |      |
|                                   | 25              | 0             |        | 16.50                     | 5.33       | 21.83          | <=23  | Pass    |      |      |
|                                   |                 | 13            |        | 16.69                     | 5.33       | 22.02          | <=23  | Pass    |      |      |
|                                   |                 | 25            |        | 16.68                     | 5.33       | 22.01          | <=23  | Pass    |      |      |
|                                   | 50              | 0             |        | 16.53                     | 5.33       | 21.86          | <=23  | Pass    |      |      |

|  |        |      |      |       |       |       |       |       |      |      |
|--|--------|------|------|-------|-------|-------|-------|-------|------|------|
|  | 3625   | 1    | 0    | 17.17 | 5.33  | 22.50 | <=23  | Pass  |      |      |
|  |        |      | 25   | 17.33 | 5.33  | 22.66 | <=23  | Pass  |      |      |
|  |        |      | 49   | 17.27 | 5.33  | 22.60 | <=23  | Pass  |      |      |
|  |        | 25   | 0    | 17.12 | 5.33  | 22.45 | <=23  | Pass  |      |      |
|  |        |      | 13   | 17.10 | 5.33  | 22.43 | <=23  | Pass  |      |      |
|  |        |      | 25   | 17.08 | 5.33  | 22.41 | <=23  | Pass  |      |      |
|  |        | 50   | 0    | 16.97 | 5.33  | 22.30 | <=23  | Pass  |      |      |
|  |        | 3695 | 1    | 0     | 17.44 | 5.33  | 22.77 | <=23  | Pass |      |
|  |        |      |      | 25    | 17.54 | 5.33  | 22.87 | <=23  | Pass |      |
|  | 49     |      |      | 17.53 | 5.33  | 22.86 | <=23  | Pass  |      |      |
|  | 25     |      | 0    | 17.45 | 5.33  | 22.78 | <=23  | Pass  |      |      |
|  |        |      | 13   | 17.48 | 5.33  | 22.81 | <=23  | Pass  |      |      |
|  |        |      | 25   | 17.50 | 5.33  | 22.83 | <=23  | Pass  |      |      |
|  | 50     |      | 0    | 17.38 | 5.33  | 22.71 | <=23  | Pass  |      |      |
|  | 256QAM |      | 3555 | 1     | 0     | 16.25 | 5.33  | 21.58 | <=23 | Pass |
|  |        |      |      |       | 25    | 16.69 | 5.33  | 22.02 | <=23 | Pass |
|  |        | 49   |      |       | 16.46 | 5.33  | 21.79 | <=23  | Pass |      |
|  |        | 25   |      | 0     | 16.52 | 5.33  | 21.85 | <=23  | Pass |      |
| 13                                       |        |      |      | 16.59 | 5.33  | 21.92 | <=23  | Pass  |      |      |
| 25                                       |        |      |      | 16.72 | 5.33  | 22.05 | <=23  | Pass  |      |      |
| 50                                       |        | 0    |      | 16.54 | 5.33  | 21.87 | <=23  | Pass  |      |      |
| 3625                                     |        | 1    |      | 0     | 16.99 | 5.33  | 22.32 | <=23  | Pass |      |
|  |        |      |      | 25    | 17.19 | 5.33  | 22.52 | <=23  | Pass |      |
|  |        |      | 49   | 17.05 | 5.33  | 22.38 | <=23  | Pass  |      |      |
|  |        | 25   | 0    | 17.07 | 5.33  | 22.40 | <=23  | Pass  |      |      |
|  |        |      | 13   | 17.21 | 5.33  | 22.54 | <=23  | Pass  |      |      |
|  |        |      | 25   | 17.15 | 5.33  | 22.48 | <=23  | Pass  |      |      |
|  |        | 50   | 0    | 17.13 | 5.33  | 22.46 | <=23  | Pass  |      |      |
|  |        | 3695 | 1    | 0     | 17.37 | 5.33  | 22.70 | <=23  | Pass |      |
|  |        |      |      | 25    | 17.43 | 5.33  | 22.76 | <=23  | Pass |      |
| 49                                       |        |      |      | 17.56 | 5.33  | 22.89 | <=23  | Pass  |      |      |
| 25                                       |        |      | 0    | 17.47 | 5.33  | 22.80 | <=23  | Pass  |      |      |
|  |        |      | 13   | 17.61 | 5.33  | 22.94 | <=23  | Pass  |      |      |
|  |        |      | 25   | 17.53 | 5.33  | 22.86 | <=23  | Pass  |      |      |
| 50                                       |        |      | 0    | 17.47 | 5.33  | 22.80 | <=23  | Pass  |      |      |
| Note1: EIRP=Conducted Power+Antenna Gain |        |      |      |       |       |       |       |       |      |      |

## 1.4 B48\_10MHz\_EIRP/10MHz

### 1.4.1 Test Result

| Band: 48 / Bandwidth: 10MHz / NTV |                 |               |        |                             |            |                        |       |         |      |
|-----------------------------------|-----------------|---------------|--------|-----------------------------|------------|------------------------|-------|---------|------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm/10MHz) | Gain (dBi) | EIRP/10MHz (dBm/10MHz) |       | Verdict |      |
|                                   |                 | Size          | Offset |                             |            | Result                 | Limit |         |      |
| QPSK                              | 3555            | 1             | 0      | 14.89                       | 5.33       | 20.22                  | <=23  | Pass    |      |
|                                   |                 |               | 25     | 15.04                       | 5.33       | 20.37                  | <=23  | Pass    |      |
|                                   |                 |               | 49     | 15.07                       | 5.33       | 20.40                  | <=23  | Pass    |      |
|                                   |                 | 25            | 0      | 15.04                       | 5.33       | 20.37                  | <=23  | Pass    |      |
|                                   |                 |               | 13     | 15.35                       | 5.33       | 20.68                  | <=23  | Pass    |      |
|                                   |                 |               | 25     | 15.17                       | 5.33       | 20.50                  | <=23  | Pass    |      |
|                                   |                 | 50            | 0      | 15.02                       | 5.33       | 20.35                  | <=23  | Pass    |      |
|                                   |                 | 3625          | 1      | 0                           | 15.01      | 5.33                   | 20.34 | <=23    | Pass |
|                                   |                 |               |        | 25                          | 15.07      | 5.33                   | 20.40 | <=23    | Pass |
|                                   | 49              |               |        | 15.19                       | 5.33       | 20.52                  | <=23  | Pass    |      |
|                                   | 25              |               | 0      | 15.27                       | 5.33       | 20.60                  | <=23  | Pass    |      |
|                                   |                 |               | 13     | 15.34                       | 5.33       | 20.67                  | <=23  | Pass    |      |
|                                   |                 |               | 25     | 15.16                       | 5.33       | 20.49                  | <=23  | Pass    |      |

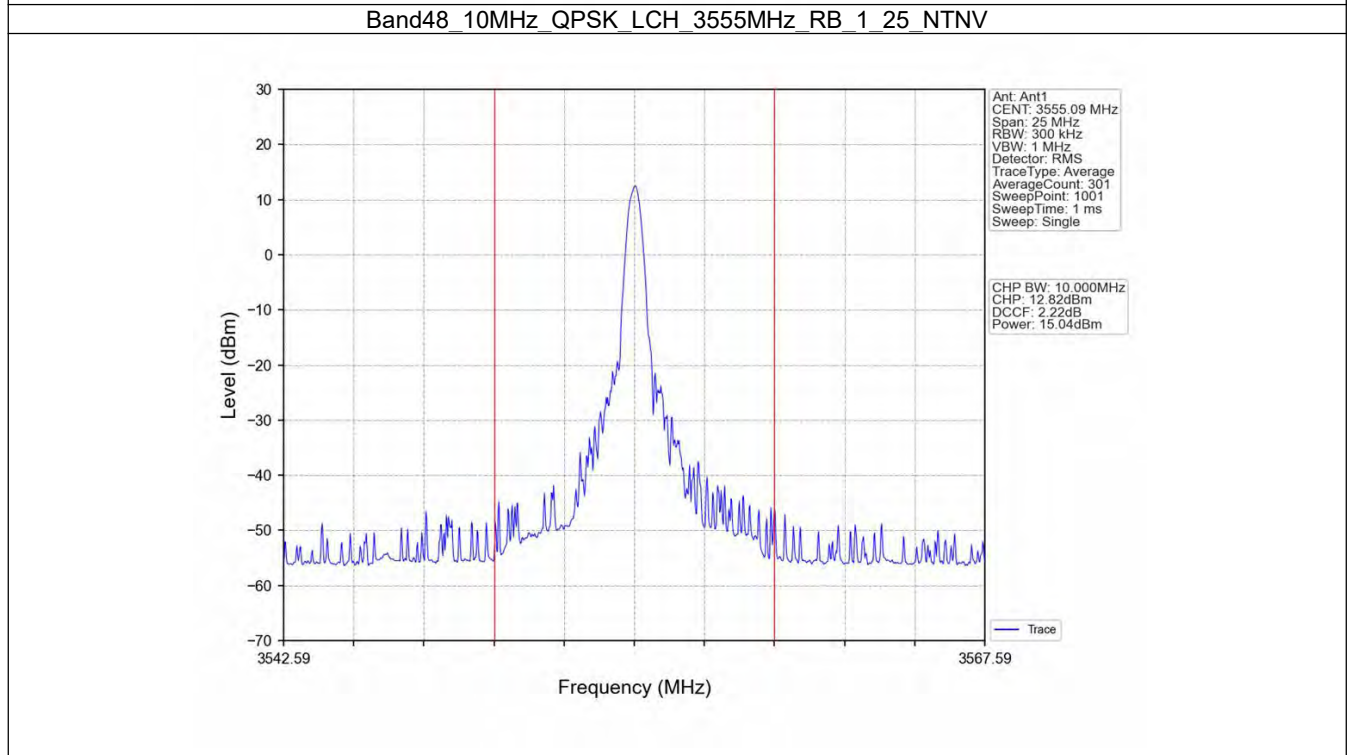
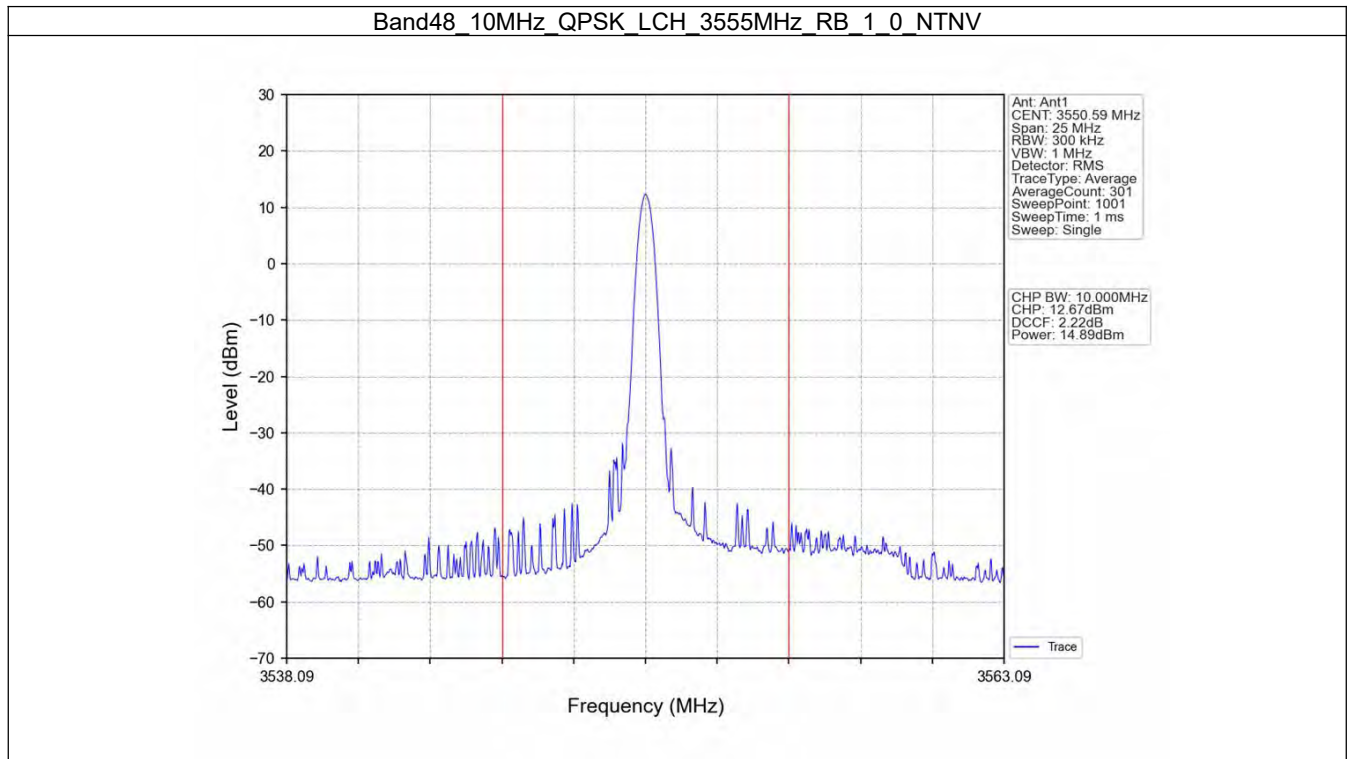


|        |      |       |       |       |       |       |       |       |      |      |
|--------|------|-------|-------|-------|-------|-------|-------|-------|------|------|
|        | 3695 | 50    | 0     | 15.16 | 5.33  | 20.49 | <=23  | Pass  |      |      |
|        |      |       | 1     | 0     | 16.26 | 5.33  | 21.59 | <=23  | Pass |      |
|        |      |       |       | 25    | 16.24 | 5.33  | 21.57 | <=23  | Pass |      |
|        |      | 25    | 49    | 16.15 | 5.33  | 21.48 | <=23  | Pass  |      |      |
|        |      |       | 0     | 16.11 | 5.33  | 21.44 | <=23  | Pass  |      |      |
|        |      |       | 13    | 16.27 | 5.33  | 21.60 | <=23  | Pass  |      |      |
|        |      | 50    | 25    | 16.32 | 5.33  | 21.65 | <=23  | Pass  |      |      |
|        |      |       | 0     | 16.30 | 5.33  | 21.63 | <=23  | Pass  |      |      |
|        |      |       | 50    | 0     | 15.19 | 5.33  | 20.52 | <=23  | Pass |      |
| 16QAM  | 3555 | 1     | 0     | 15.19 | 5.33  | 20.52 | <=23  | Pass  |      |      |
|        |      |       | 25    | 15.30 | 5.33  | 20.63 | <=23  | Pass  |      |      |
|        |      |       | 49    | 14.77 | 5.33  | 20.10 | <=23  | Pass  |      |      |
|        |      | 25    | 0     | 15.05 | 5.33  | 20.38 | <=23  | Pass  |      |      |
|        |      |       | 13    | 15.37 | 5.33  | 20.70 | <=23  | Pass  |      |      |
|        |      |       | 25    | 14.88 | 5.33  | 20.21 | <=23  | Pass  |      |      |
|        |      | 3625  | 50    | 0     | 15.18 | 5.33  | 20.51 | <=23  | Pass |      |
|        |      |       |       | 1     | 0     | 15.35 | 5.33  | 20.68 | <=23 | Pass |
|        |      |       |       |       | 25    | 15.20 | 5.33  | 20.53 | <=23 | Pass |
|        | 25   |       | 49    | 15.08 | 5.33  | 20.41 | <=23  | Pass  |      |      |
|        |      |       | 0     | 15.07 | 5.33  | 20.40 | <=23  | Pass  |      |      |
|        |      |       | 13    | 15.29 | 5.33  | 20.62 | <=23  | Pass  |      |      |
|        | 50   |       | 25    | 15.22 | 5.33  | 20.55 | <=23  | Pass  |      |      |
|        |      |       | 0     | 15.11 | 5.33  | 20.44 | <=23  | Pass  |      |      |
|        |      |       | 0     | 16.10 | 5.33  | 21.43 | <=23  | Pass  |      |      |
|        | 3695 | 1     | 25    | 16.09 | 5.33  | 21.42 | <=23  | Pass  |      |      |
|        |      |       | 49    | 16.18 | 5.33  | 21.51 | <=23  | Pass  |      |      |
|        |      |       | 0     | 16.15 | 5.33  | 21.48 | <=23  | Pass  |      |      |
|        |      | 25    | 13    | 16.17 | 5.33  | 21.50 | <=23  | Pass  |      |      |
|        |      |       | 25    | 16.39 | 5.33  | 21.72 | <=23  | Pass  |      |      |
|        |      |       | 0     | 16.15 | 5.33  | 21.48 | <=23  | Pass  |      |      |
|        |      | 64QAM | 3555  | 1     | 0     | 15.25 | 5.33  | 20.58 | <=23 | Pass |
|        |      |       |       |       | 25    | 15.64 | 5.33  | 20.97 | <=23 | Pass |
|        |      |       |       |       | 49    | 15.47 | 5.33  | 20.80 | <=23 | Pass |
|        | 25   |       |       | 0     | 15.52 | 5.33  | 20.85 | <=23  | Pass |      |
|        |      |       |       | 13    | 15.60 | 5.33  | 20.93 | <=23  | Pass |      |
|        |      |       |       | 25    | 15.42 | 5.33  | 20.75 | <=23  | Pass |      |
| 3625   | 50   |       |       | 0     | 15.58 | 5.33  | 20.91 | <=23  | Pass |      |
|        |      |       |       | 1     | 0     | 15.51 | 5.33  | 20.84 | <=23 | Pass |
|        |      |       |       |       | 25    | 15.74 | 5.33  | 21.07 | <=23 | Pass |
|        | 25   |       | 49    | 15.60 | 5.33  | 20.93 | <=23  | Pass  |      |      |
|        |      |       | 0     | 15.56 | 5.33  | 20.89 | <=23  | Pass  |      |      |
|        |      |       | 13    | 15.56 | 5.33  | 20.89 | <=23  | Pass  |      |      |
|        | 50   |       | 25    | 15.47 | 5.33  | 20.80 | <=23  | Pass  |      |      |
|        |      |       | 0     | 15.48 | 5.33  | 20.81 | <=23  | Pass  |      |      |
|        |      |       | 0     | 16.38 | 5.33  | 21.71 | <=23  | Pass  |      |      |
| 256QAM | 3555 |       | 1     | 25    | 16.75 | 5.33  | 22.08 | <=23  | Pass |      |
|        |      |       |       | 49    | 14.16 | 5.33  | 19.49 | <=23  | Pass |      |
|        |      |       |       | 0     | 16.31 | 5.33  | 21.64 | <=23  | Pass |      |
|        |      |       | 25    | 13    | 16.54 | 5.33  | 21.87 | <=23  | Pass |      |
|        |      |       |       | 25    | 16.30 | 5.33  | 21.63 | <=23  | Pass |      |
|        |      |       |       | 0     | 16.27 | 5.33  | 21.60 | <=23  | Pass |      |
|        |      |       | 3625  | 50    | 0     | 15.66 | 5.33  | 20.99 | <=23 | Pass |
|        |      |       |       |       | 25    | 15.55 | 5.33  | 20.88 | <=23 | Pass |
|        |      |       |       |       | 49    | 15.24 | 5.33  | 20.57 | <=23 | Pass |
| 1      | 0    |       |       | 15.61 | 5.33  | 20.94 | <=23  | Pass  |      |      |
|        | 13   |       |       | 15.67 | 5.33  | 21.00 | <=23  | Pass  |      |      |
|        | 25   |       |       | 15.50 | 5.33  | 20.83 | <=23  | Pass  |      |      |
| 3695   | 50   | 0     | 15.57 | 5.33  | 20.90 | <=23  | Pass  |       |      |      |
|        |      | 0     | 15.61 | 5.33  | 20.94 | <=23  | Pass  |       |      |      |
|        |      | 25    | 15.35 | 5.33  | 20.68 | <=23  | Pass  |       |      |      |

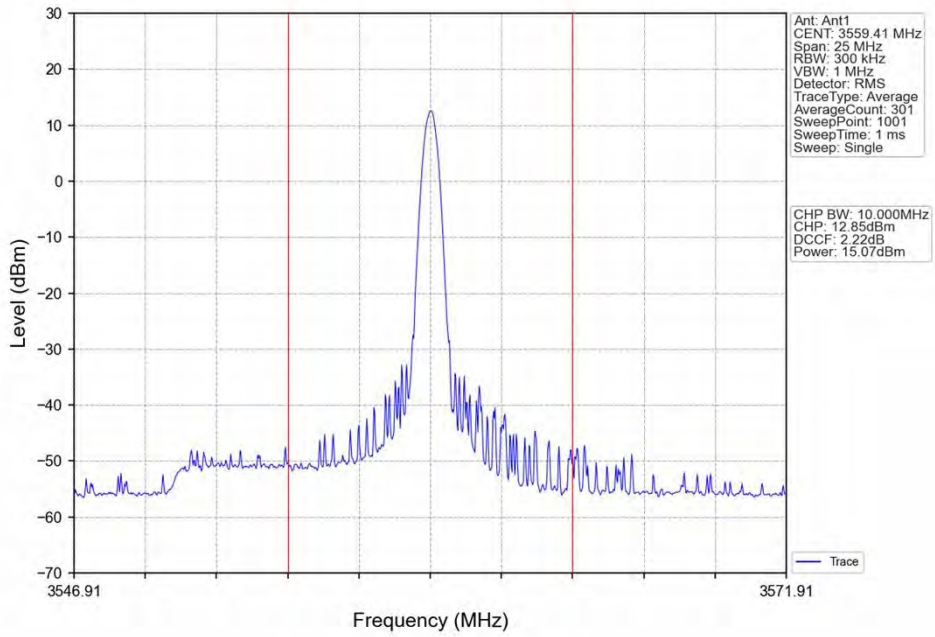
|  |      |    |    |       |      |       |      |      |
|--|------|----|----|-------|------|-------|------|------|
|  |      | 25 | 49 | 15.69 | 5.33 | 21.02 | <=23 | Pass |
|  |      |    | 0  | 15.40 | 5.33 | 20.73 | <=23 | Pass |
|  |      |    | 13 | 15.56 | 5.33 | 20.89 | <=23 | Pass |
|  |      |    | 25 | 15.42 | 5.33 | 20.75 | <=23 | Pass |
|  |      | 50 | 0  | 15.33 | 5.33 | 20.66 | <=23 | Pass |
|  | 3695 | 1  | 0  | 16.43 | 5.33 | 21.76 | <=23 | Pass |
|  |      |    | 25 | 16.39 | 5.33 | 21.72 | <=23 | Pass |
|  |      |    | 49 | 16.29 | 5.33 | 21.62 | <=23 | Pass |
|  |      | 25 | 0  | 16.51 | 5.33 | 21.84 | <=23 | Pass |
|  |      |    | 13 | 16.44 | 5.33 | 21.77 | <=23 | Pass |
|  |      |    | 25 | 16.52 | 5.33 | 21.85 | <=23 | Pass |
|  |      | 50 | 0  | 16.38 | 5.33 | 21.71 | <=23 | Pass |

Note1: EIRP/10MHz=Conducted Power+Antenna Gain-2.15

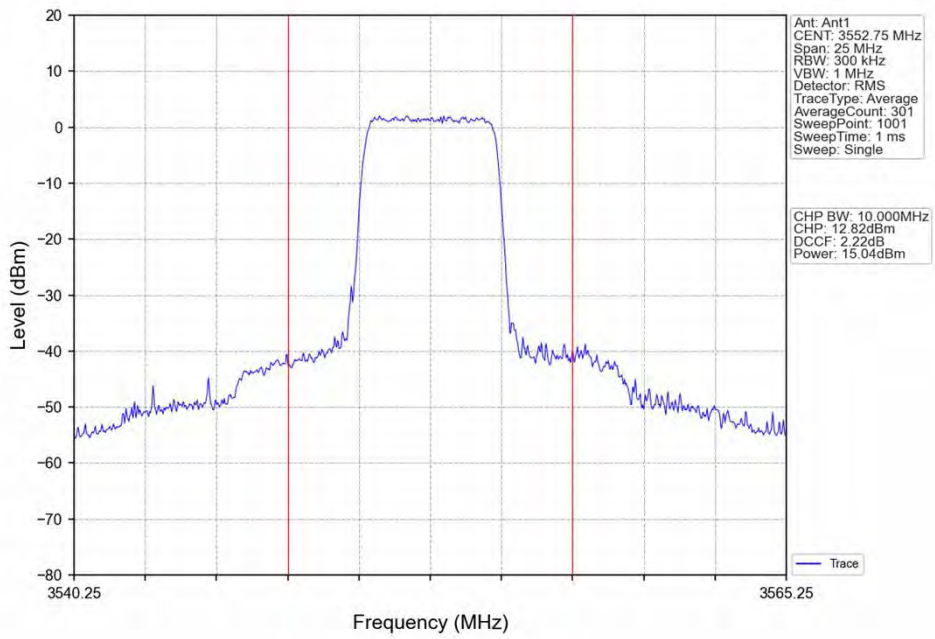
## 1.4.2 Test Graph



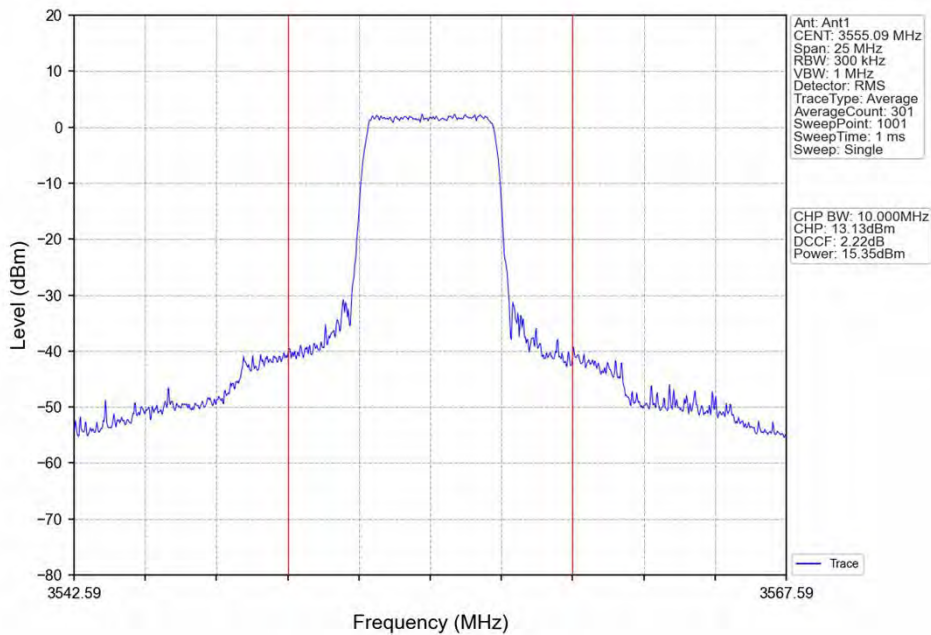
Band48 10MHz QPSK LCH 3555MHz RB 1 49 NTN



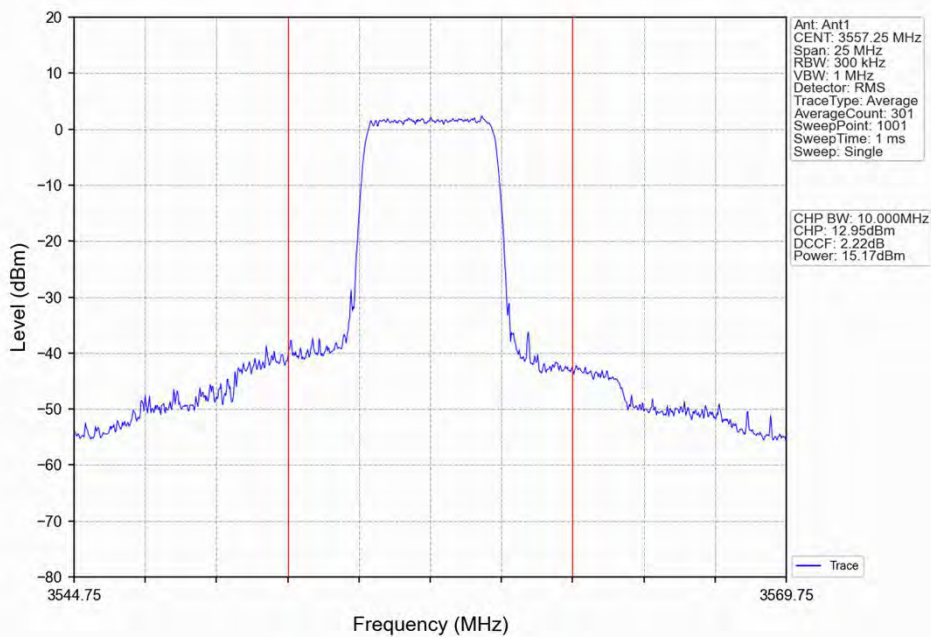
Band48 10MHz QPSK LCH 3555MHz RB 25 0 NTN



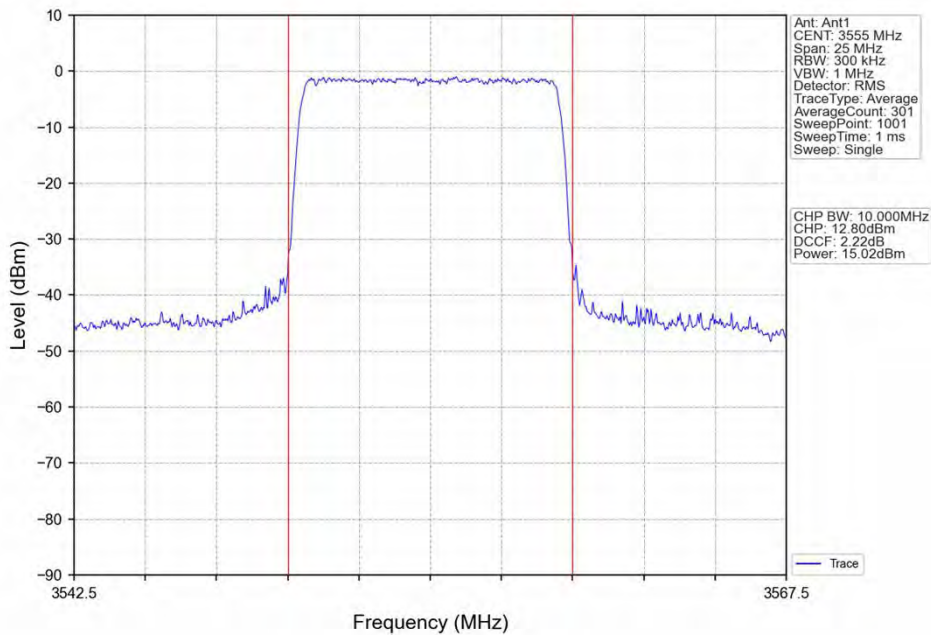
Band48 10MHz QPSK LCH 3555MHz RB 25 13 NTV



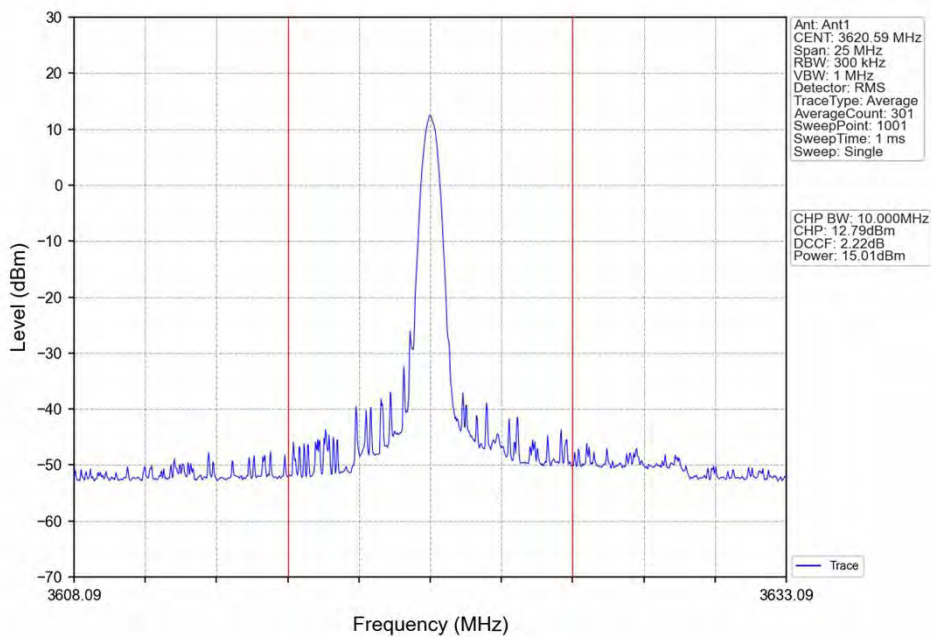
Band48 10MHz QPSK LCH 3555MHz RB 25 25 NTV



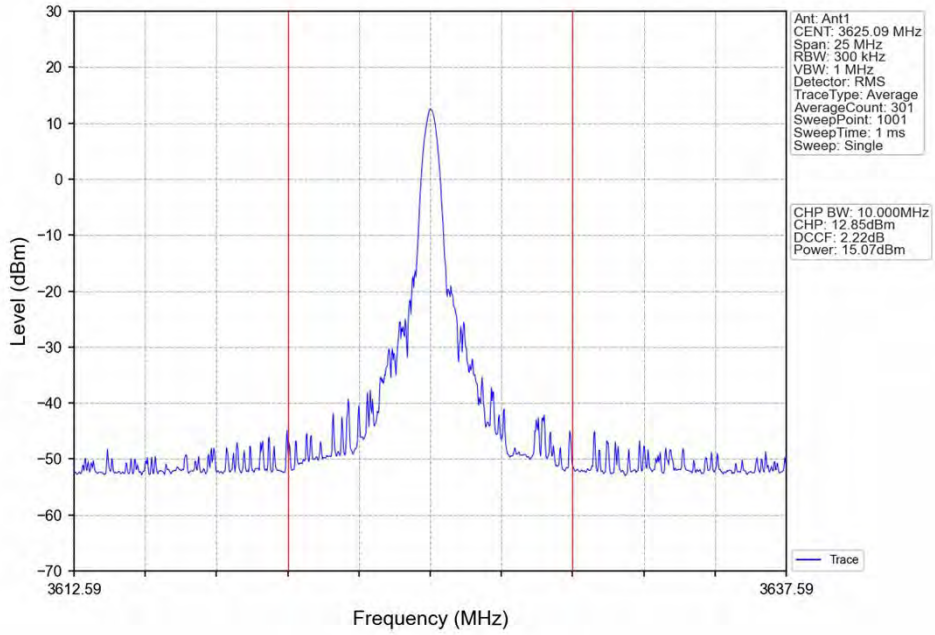
Band48 10MHz QPSK LCH 3555MHz RB 50 0 NTN



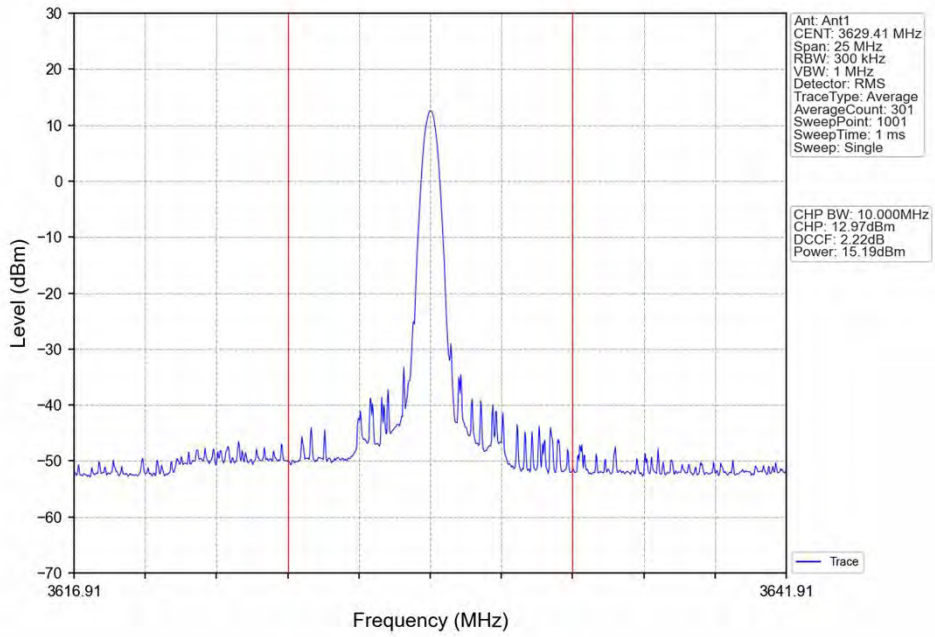
Band48 10MHz QPSK MCH 3625MHz RB 1 0 NTN



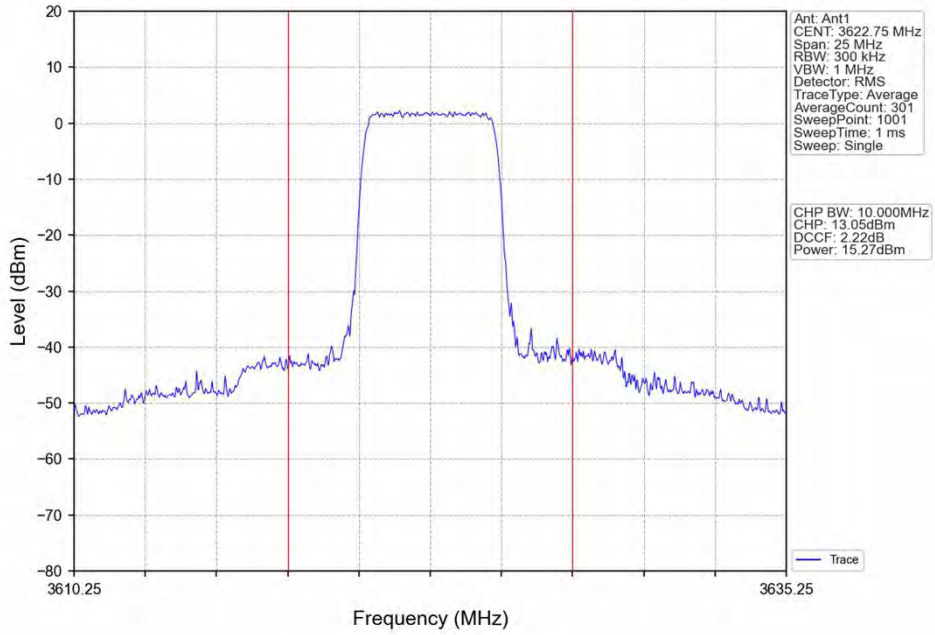
Band48 10MHz QPSK MCH 3625MHz RB 1 25 NTV



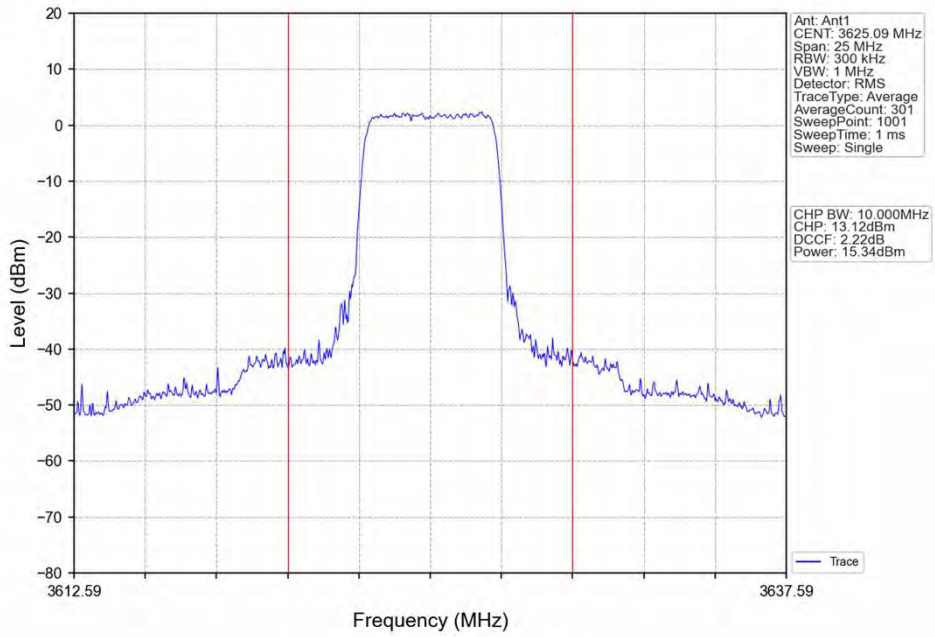
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Band48 10MHz QPSK MCH 3625MHz RB 25 0 NTN

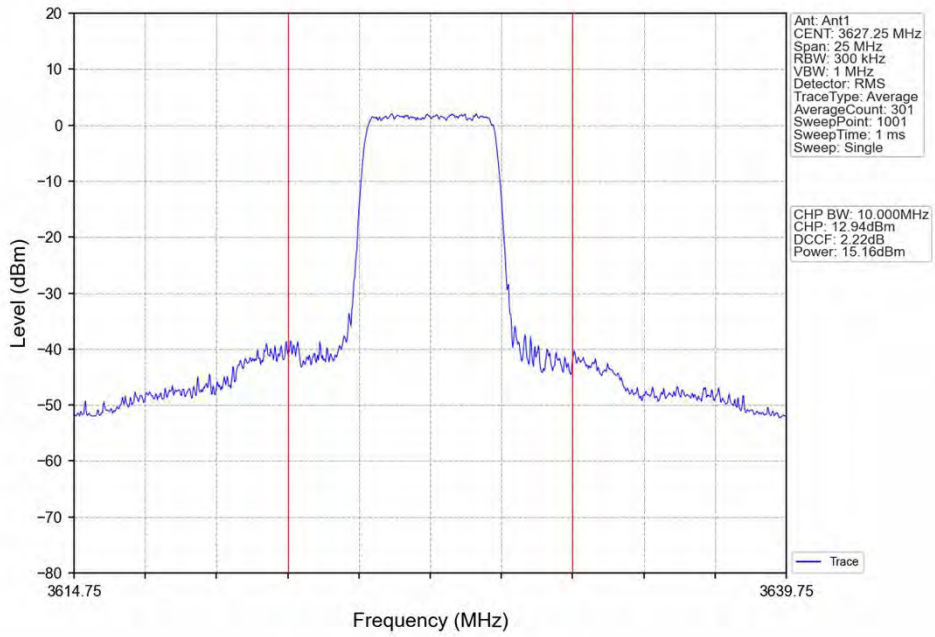


Band48 10MHz QPSK MCH 3625MHz RB 25 13 NTN

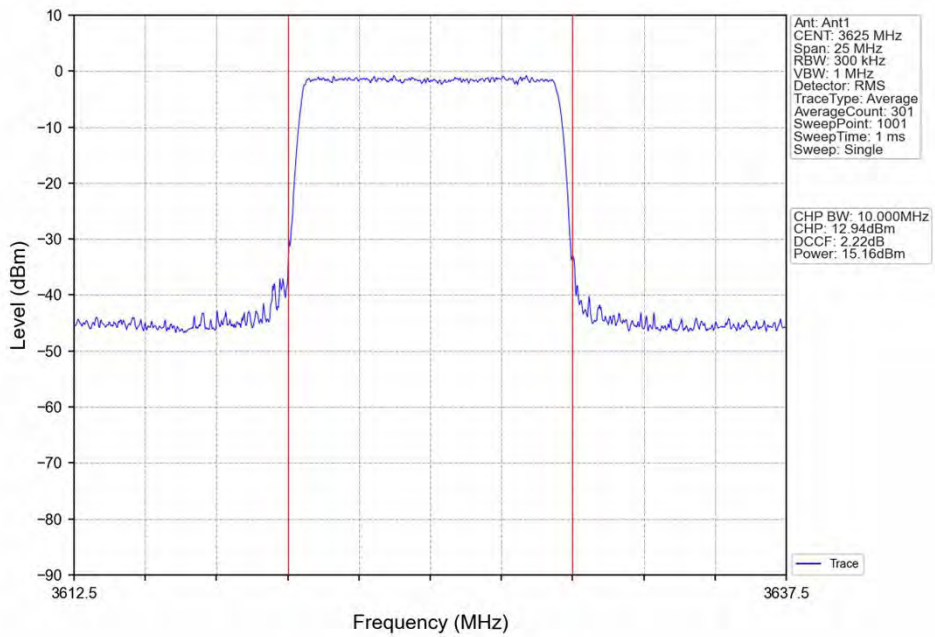




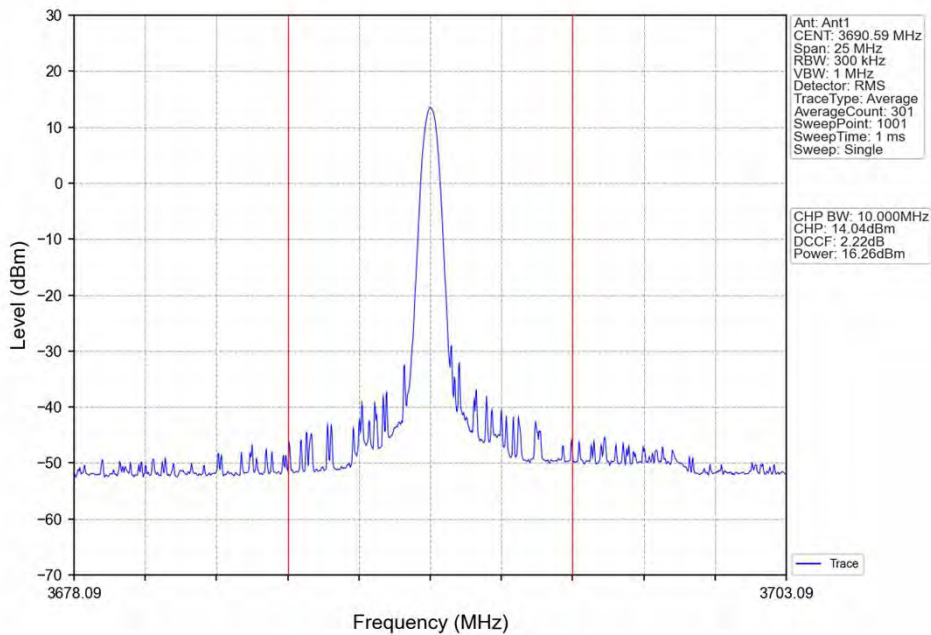
Band48 10MHz QPSK MCH 3625MHz RB 25 25 NTV



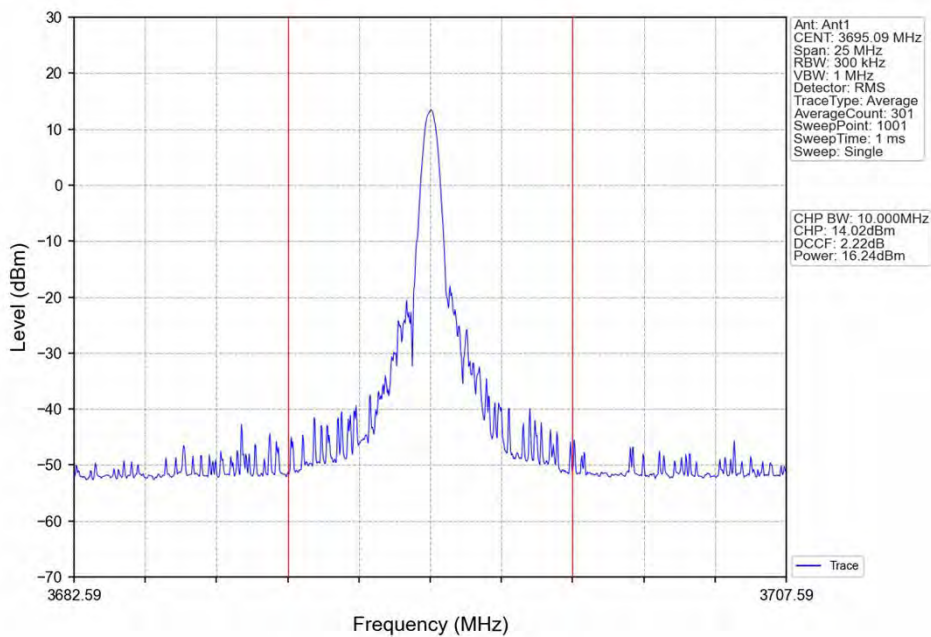
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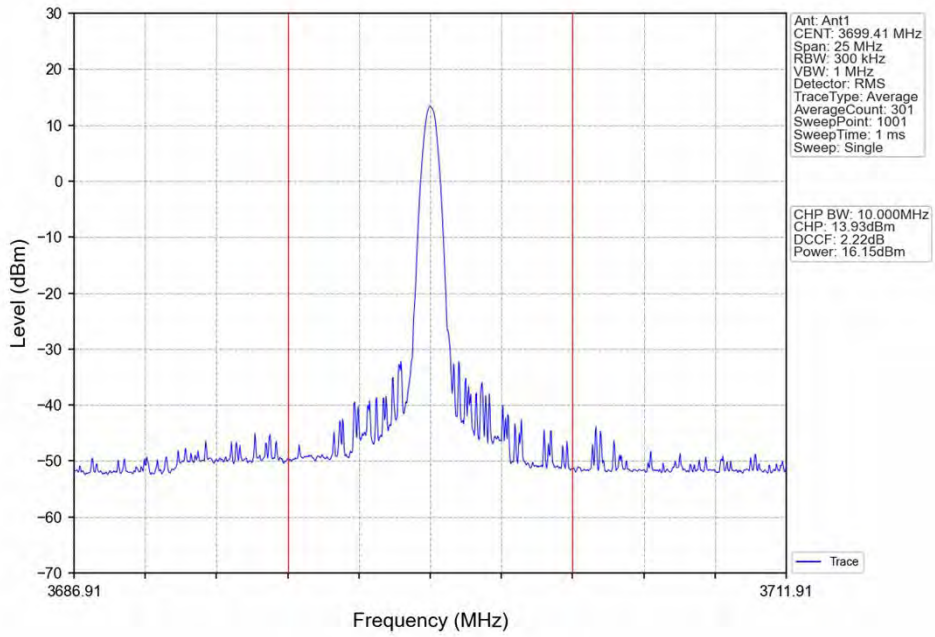
Band48 10MHz QPSK HCH 3695MHz RB 1 0 NTN



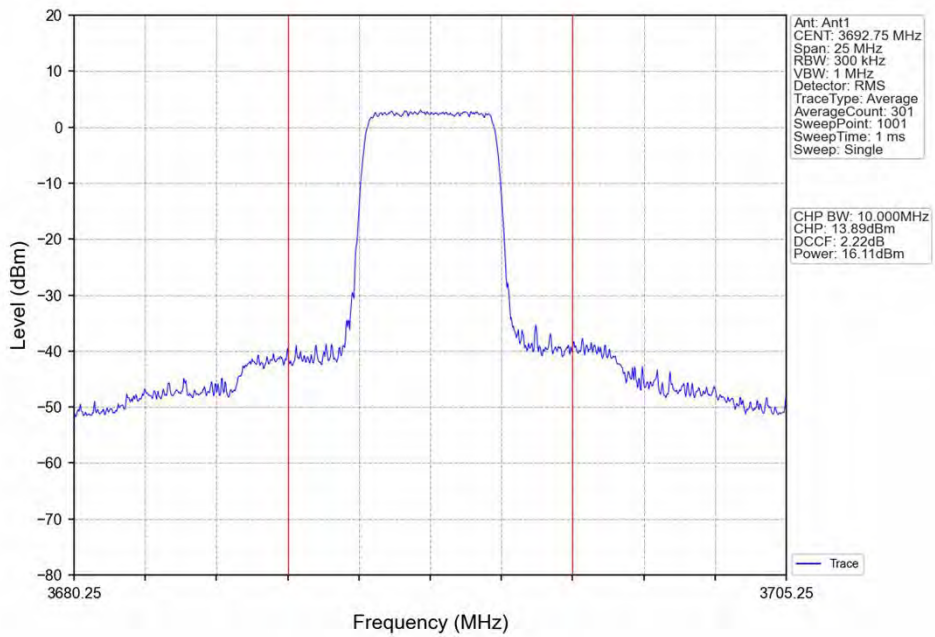
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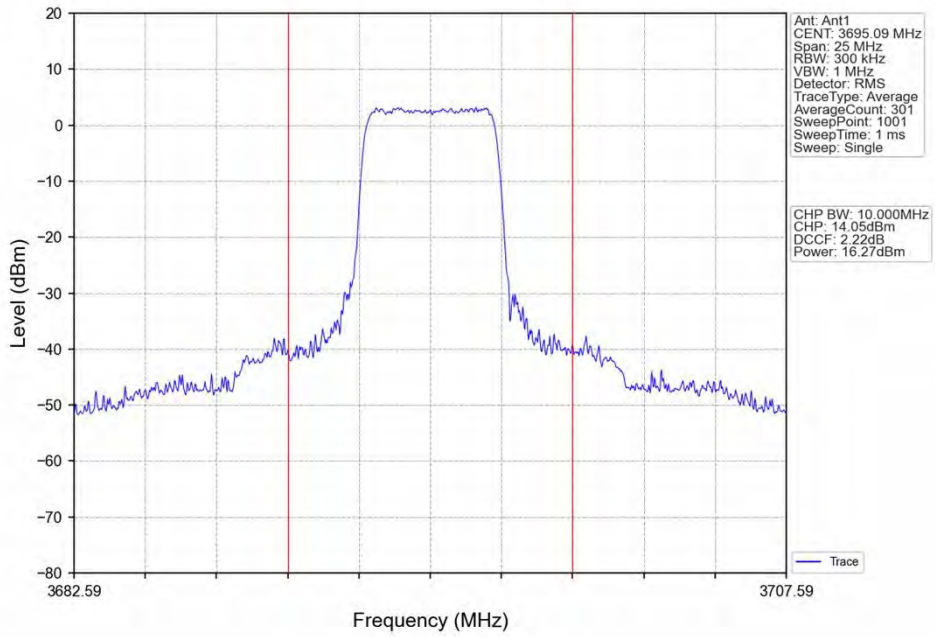
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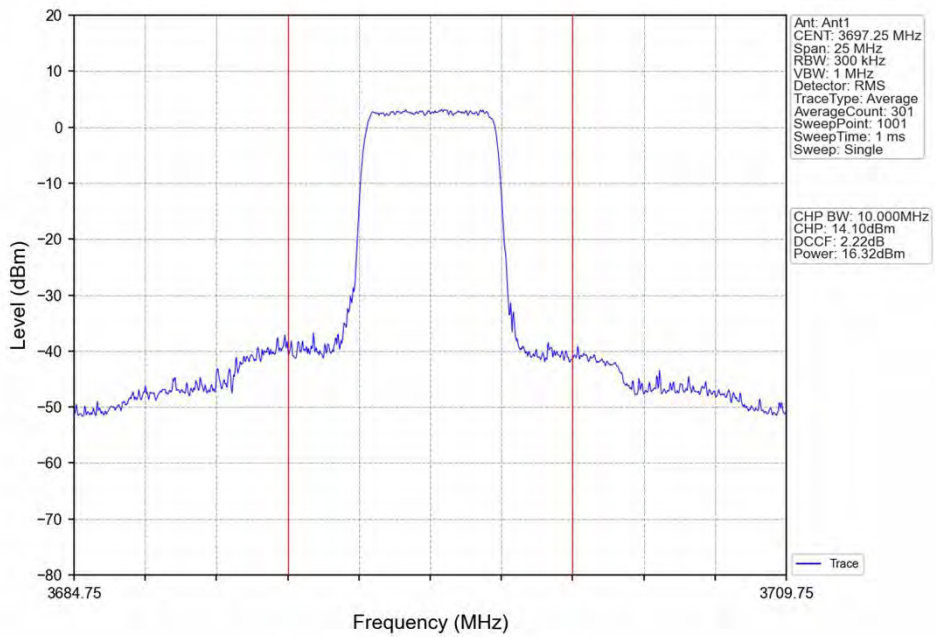
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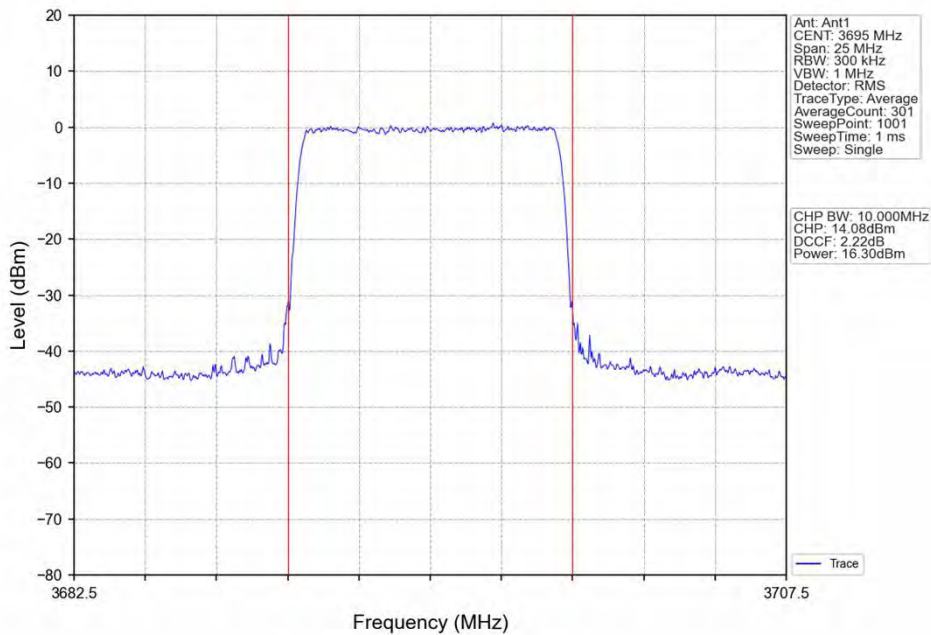
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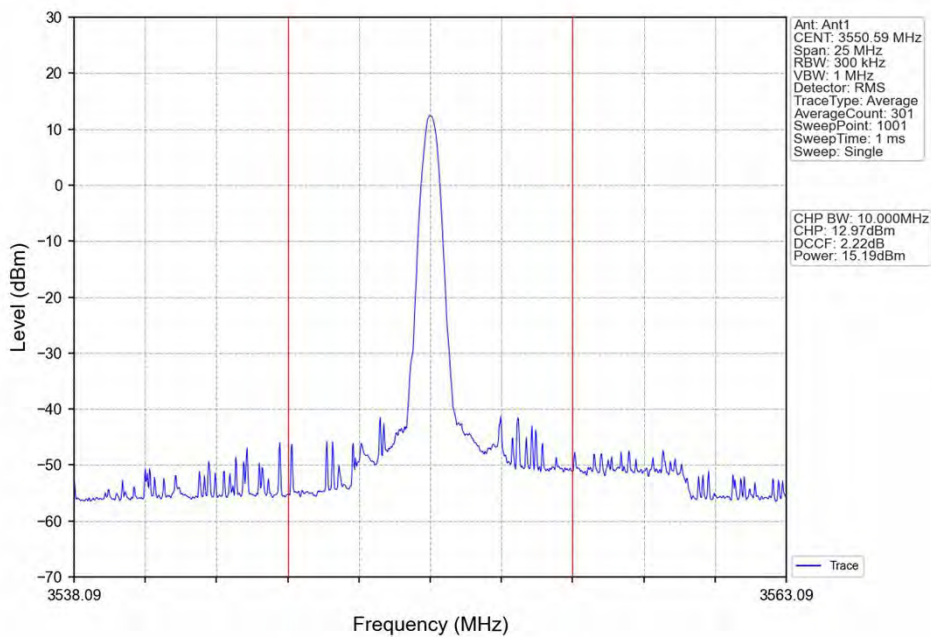
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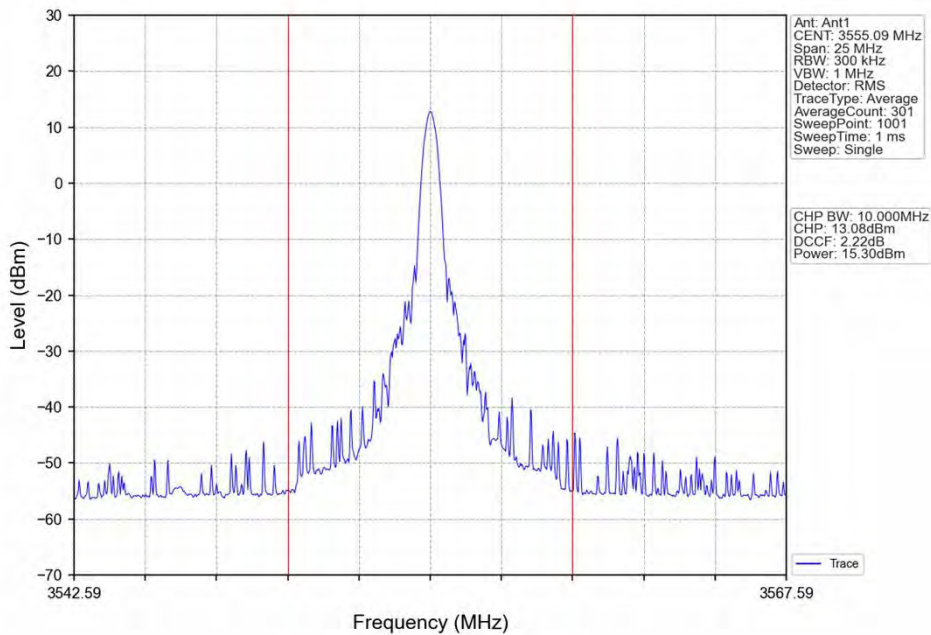
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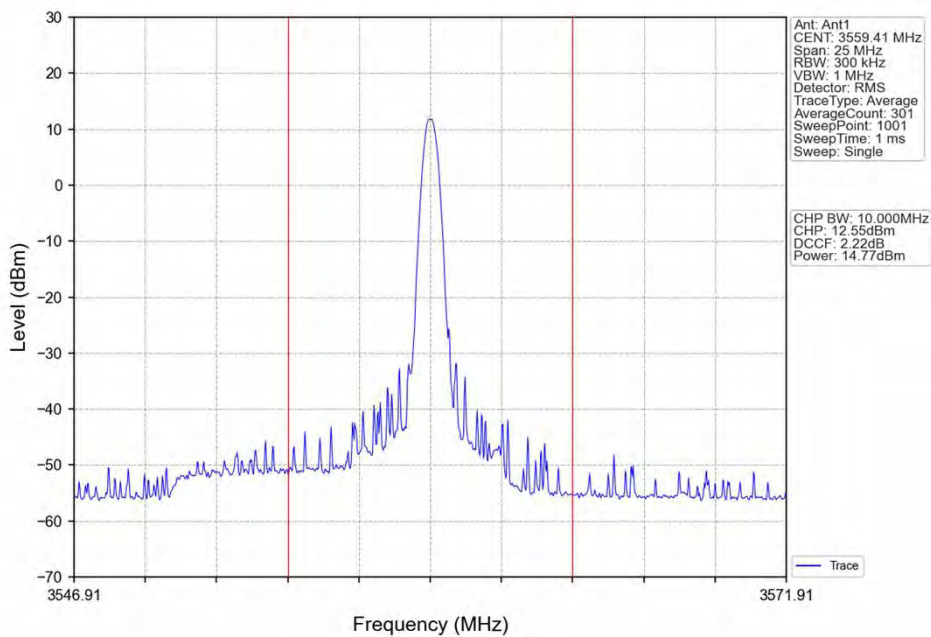
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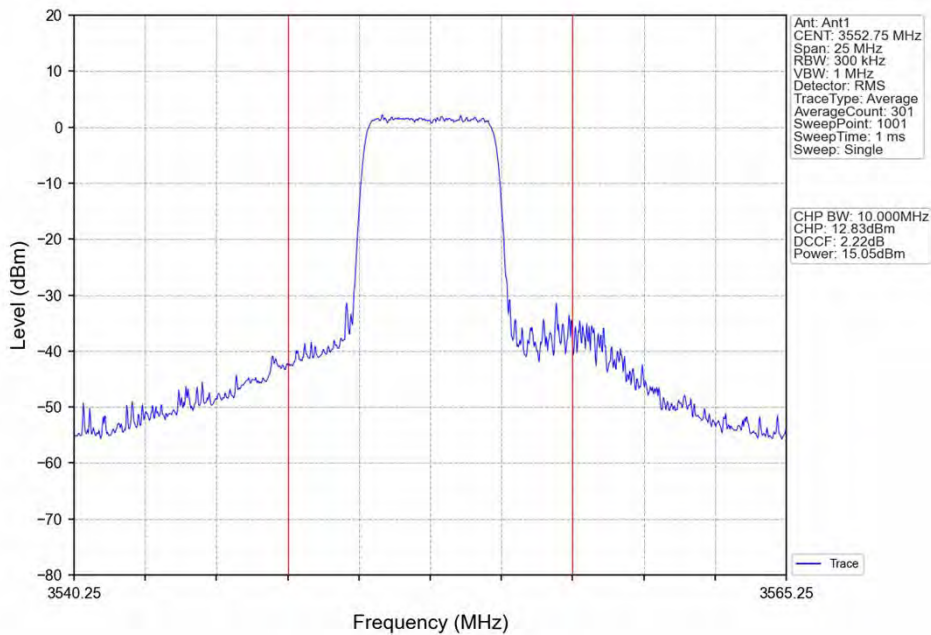
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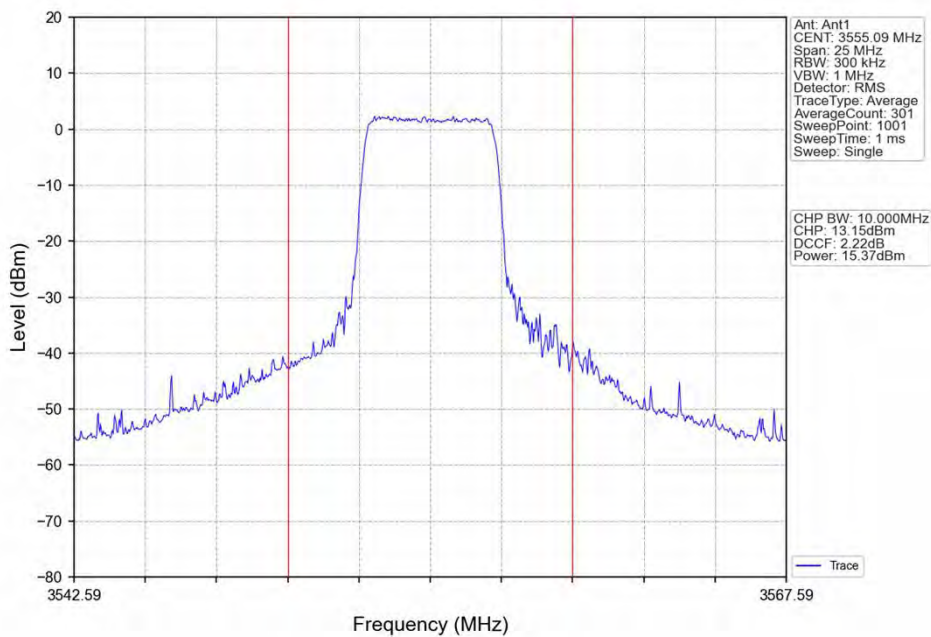
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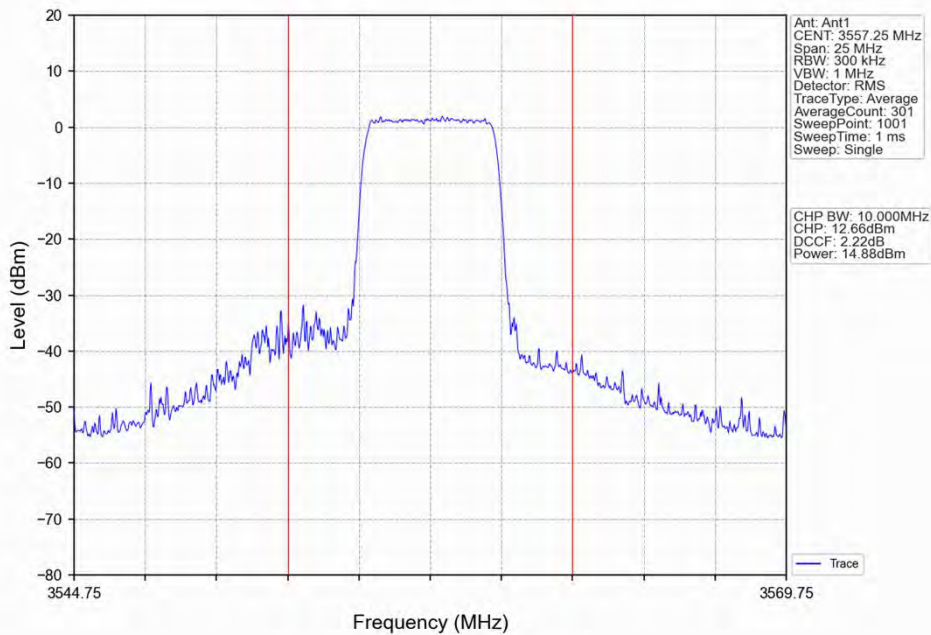
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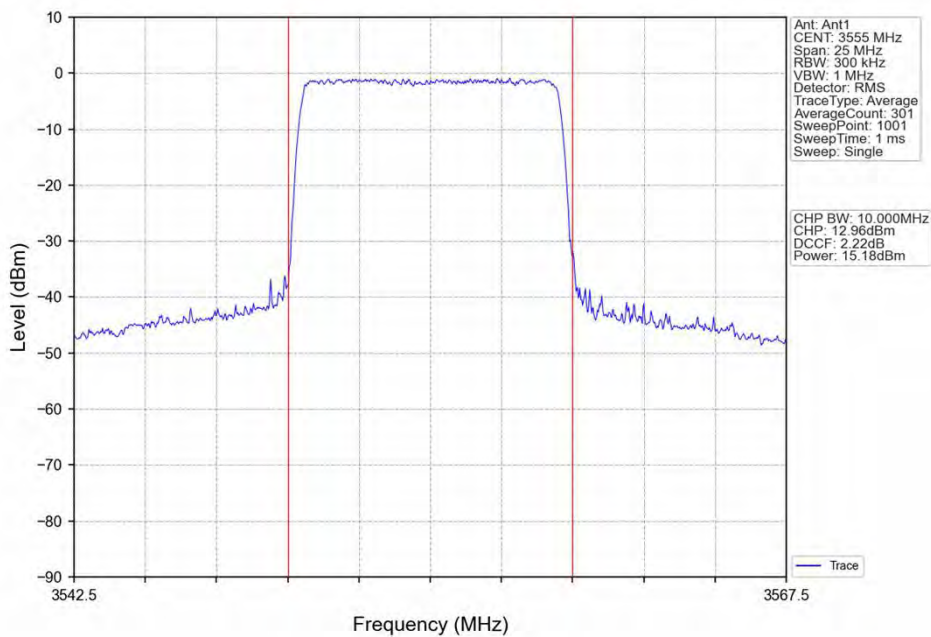
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Band48 10MHz 16QAM LCH 3555MHz RB 25 25 NTN

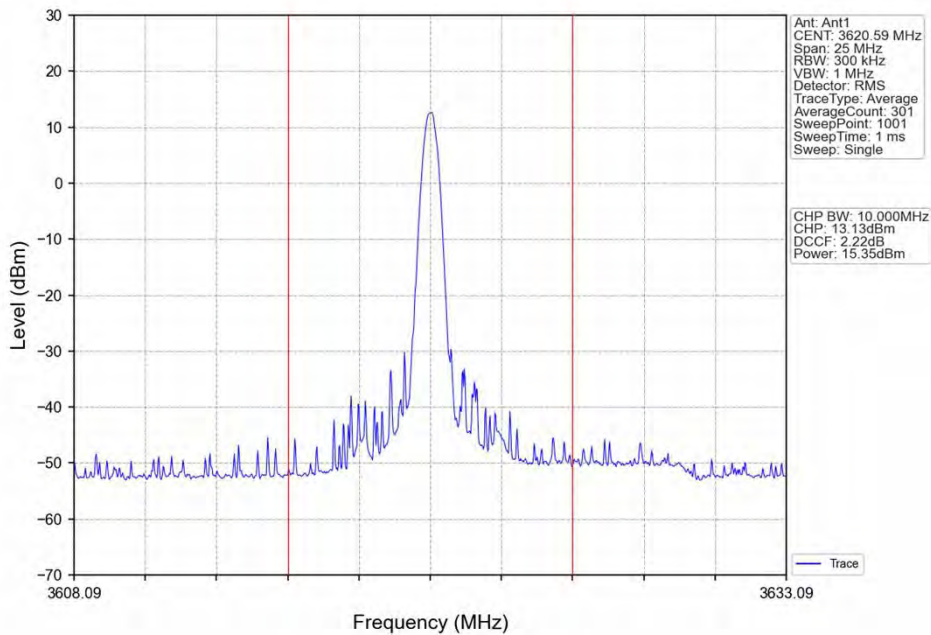


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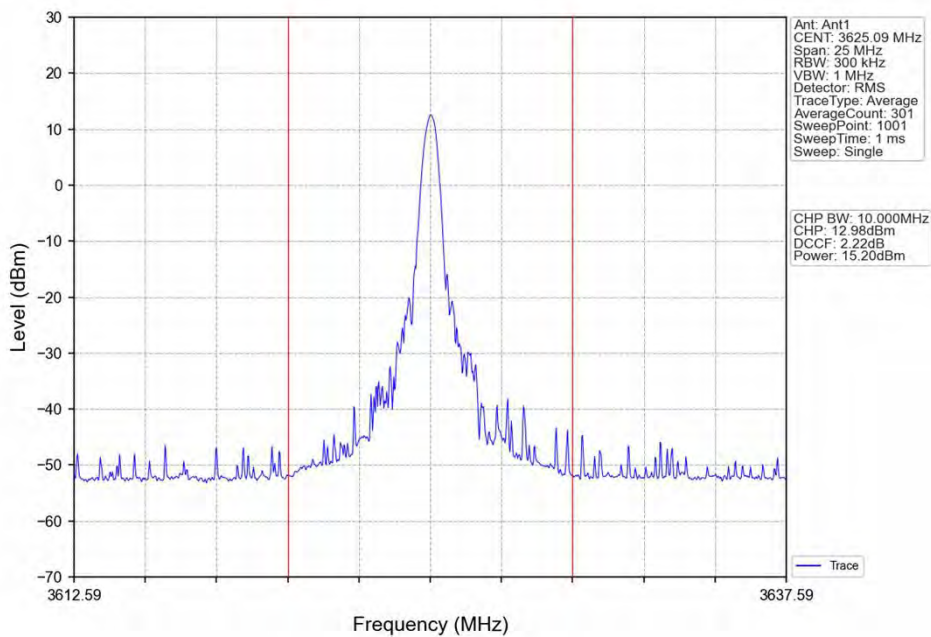




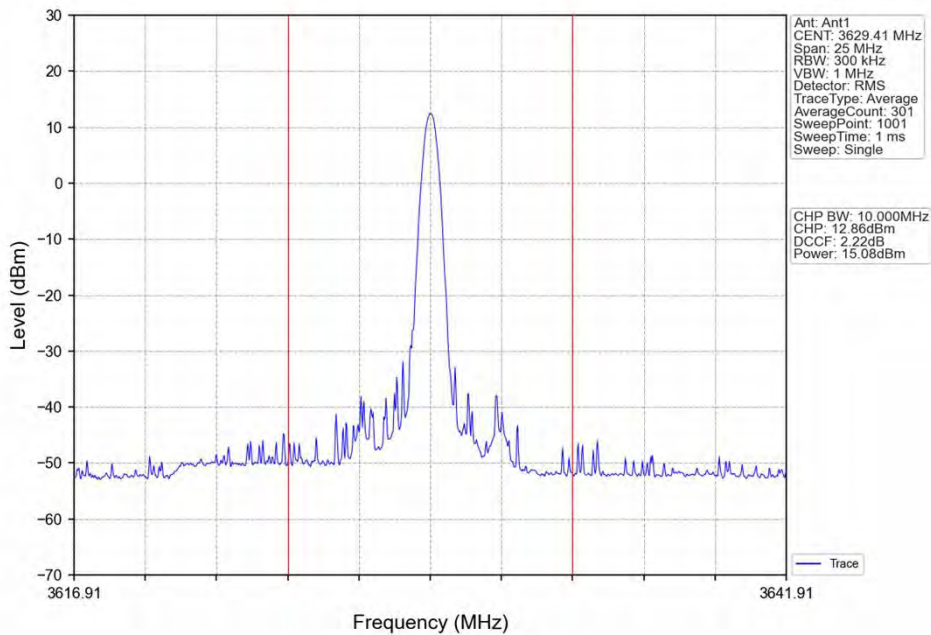
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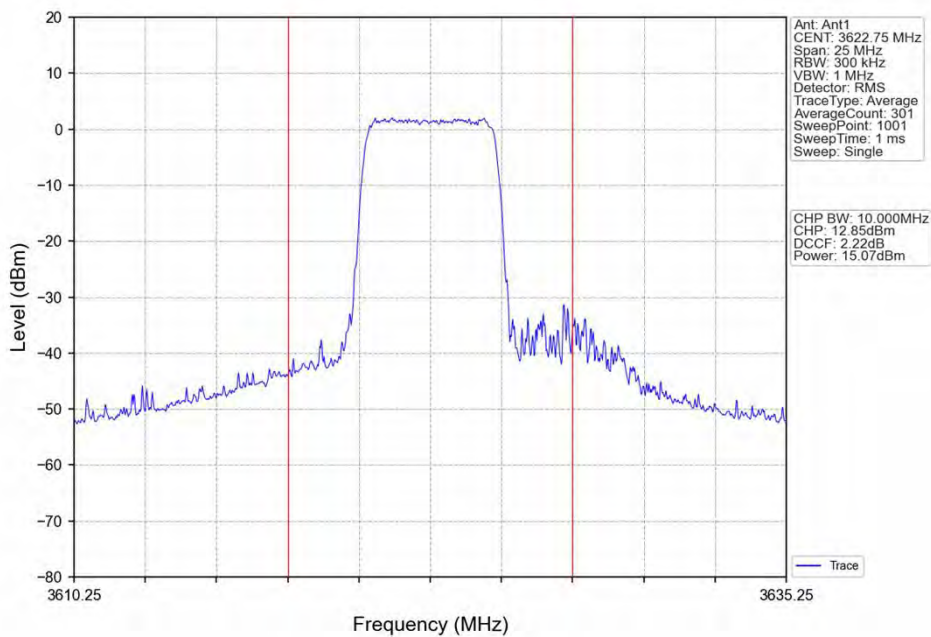
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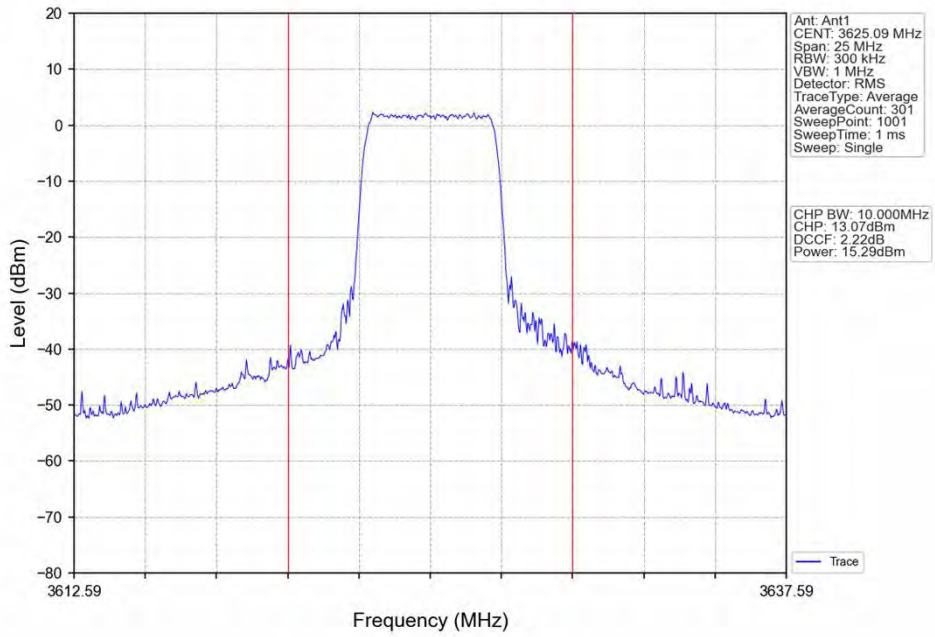
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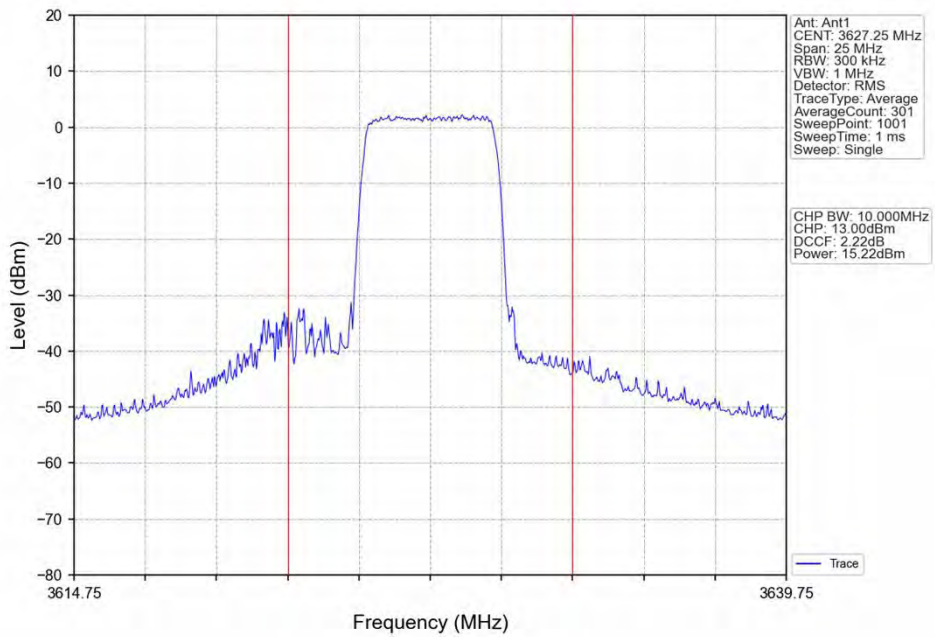
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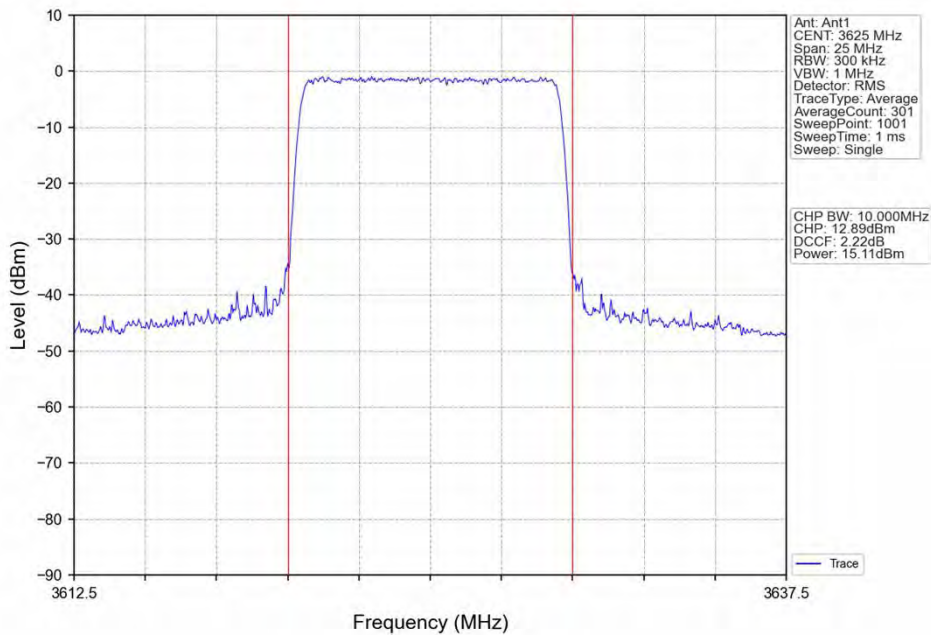
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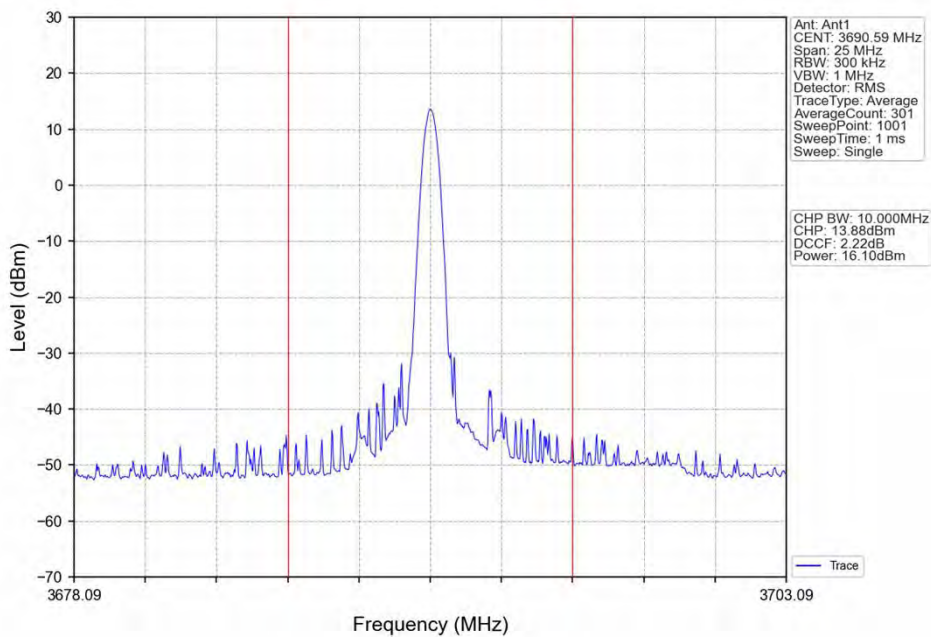
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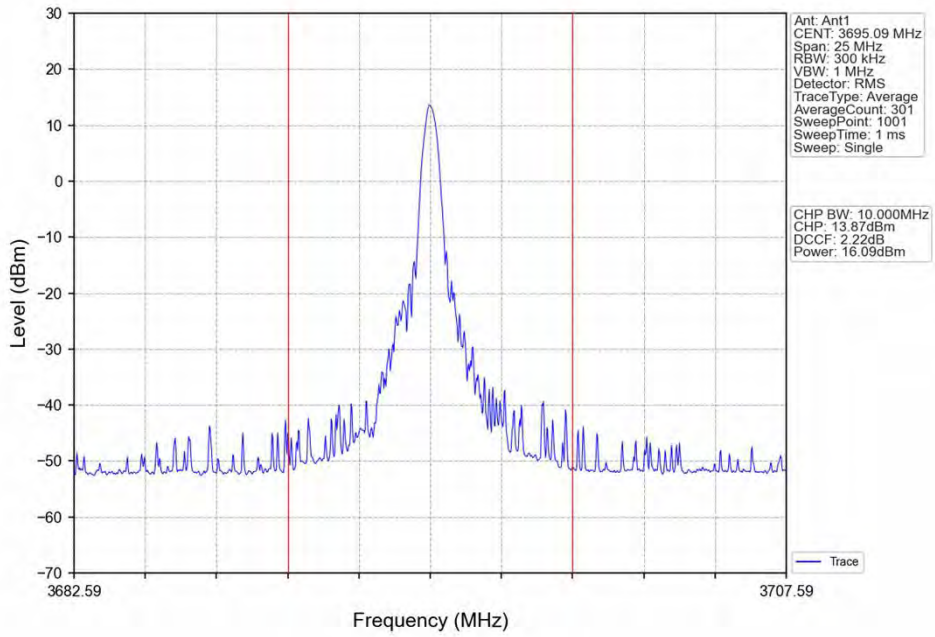
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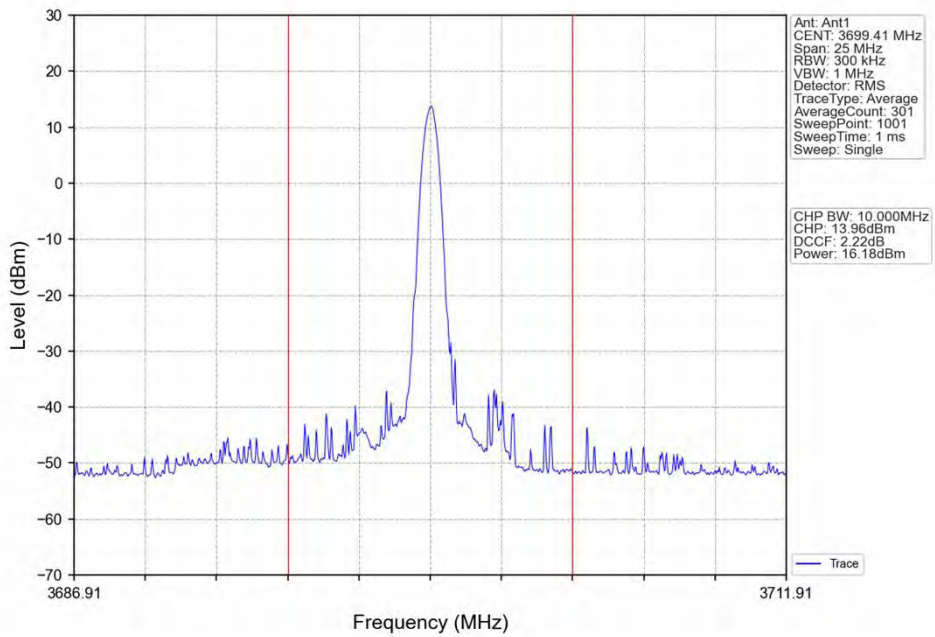
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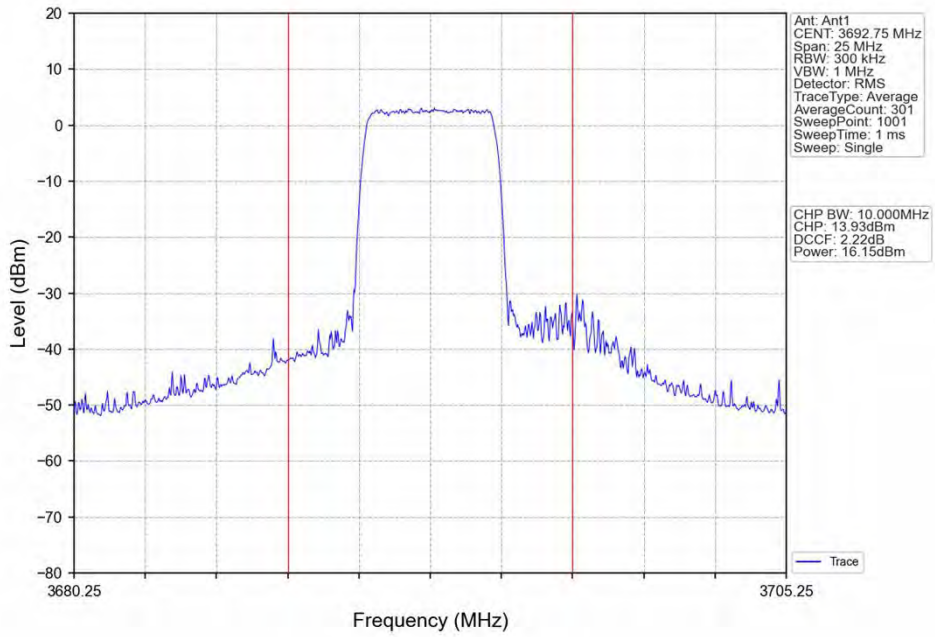
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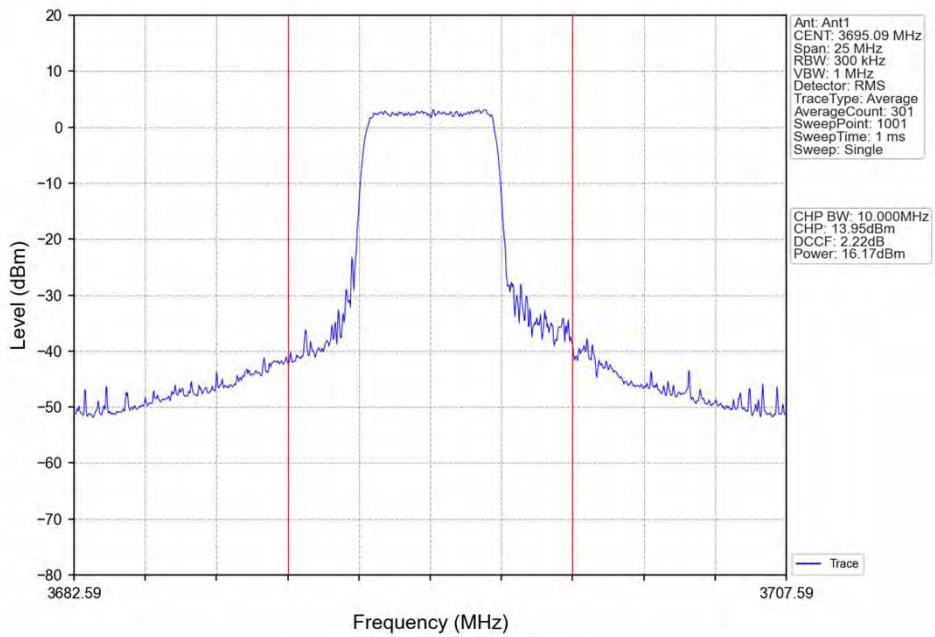
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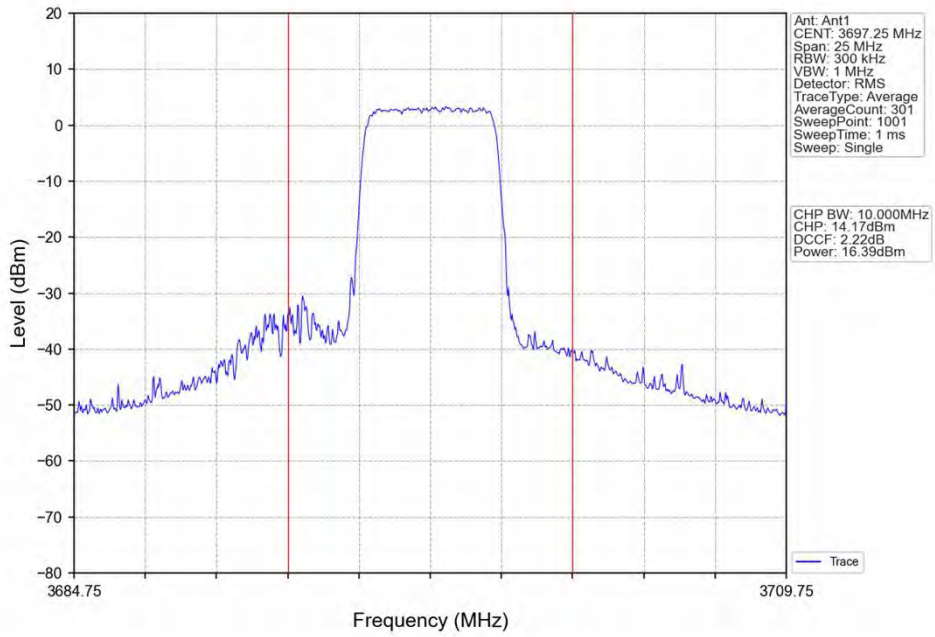
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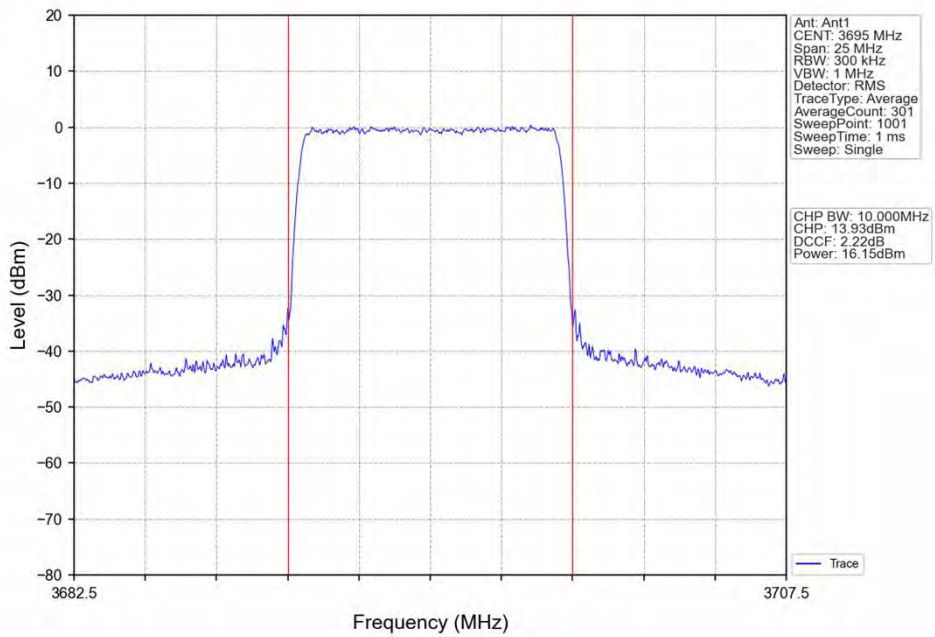
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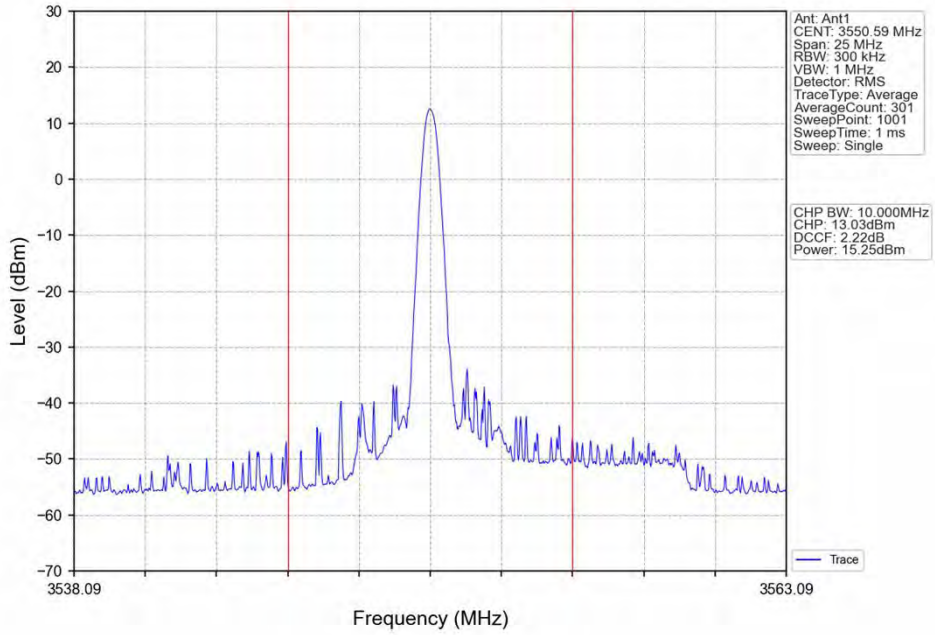
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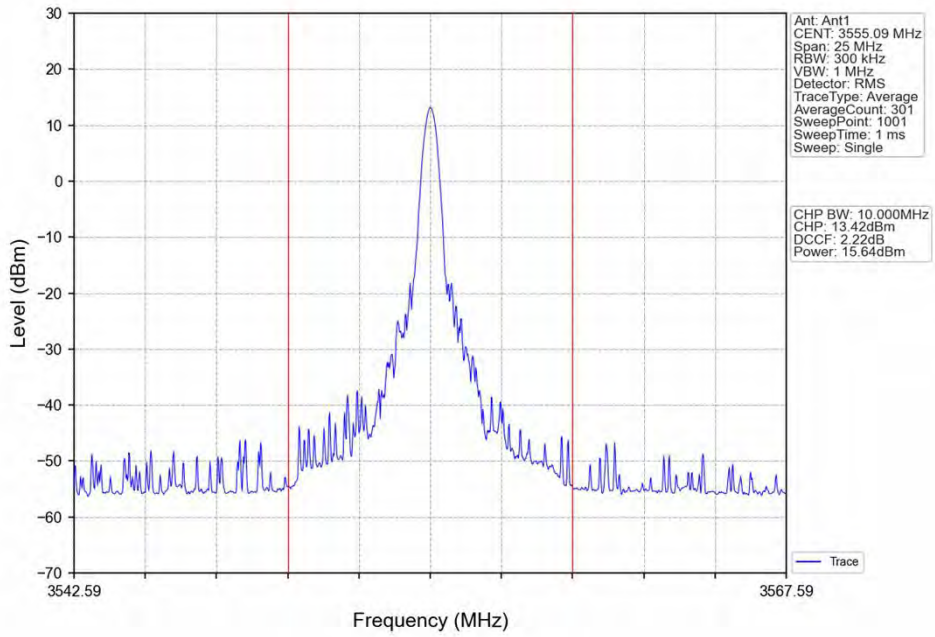
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Band48\_10MHz\_64QAM\_LCH\_3555MHz\_RB\_1\_0\_NTNV

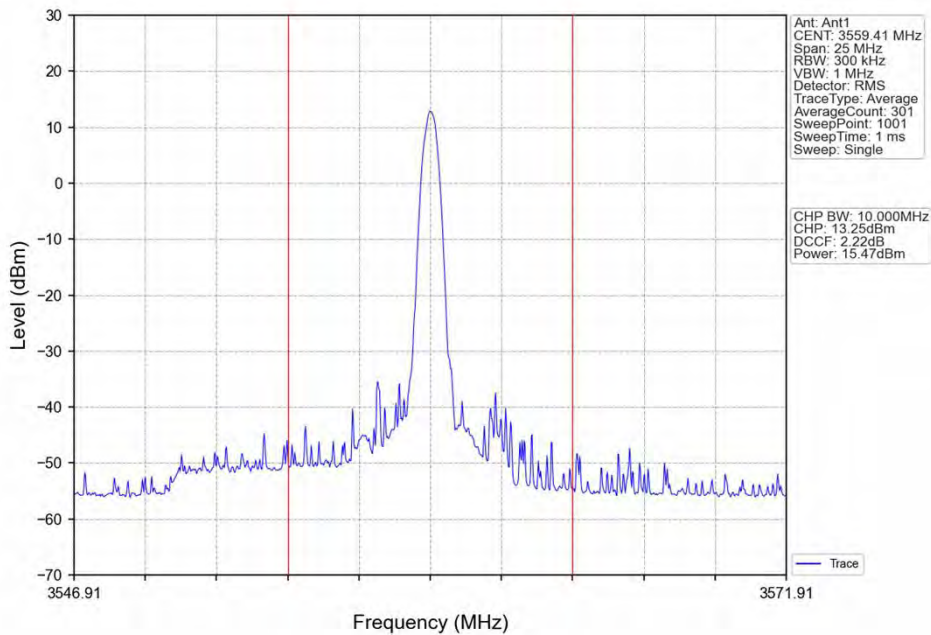


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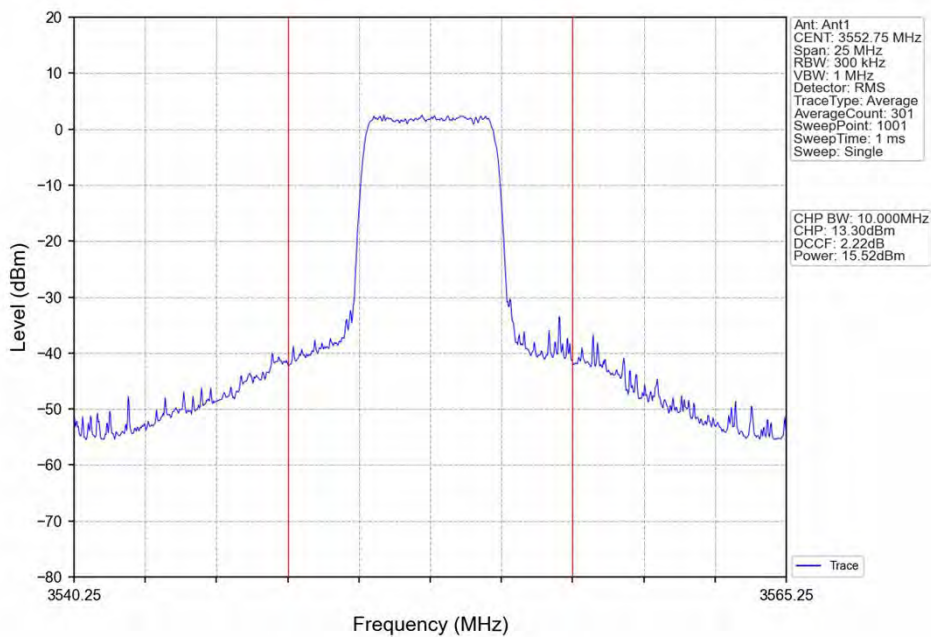




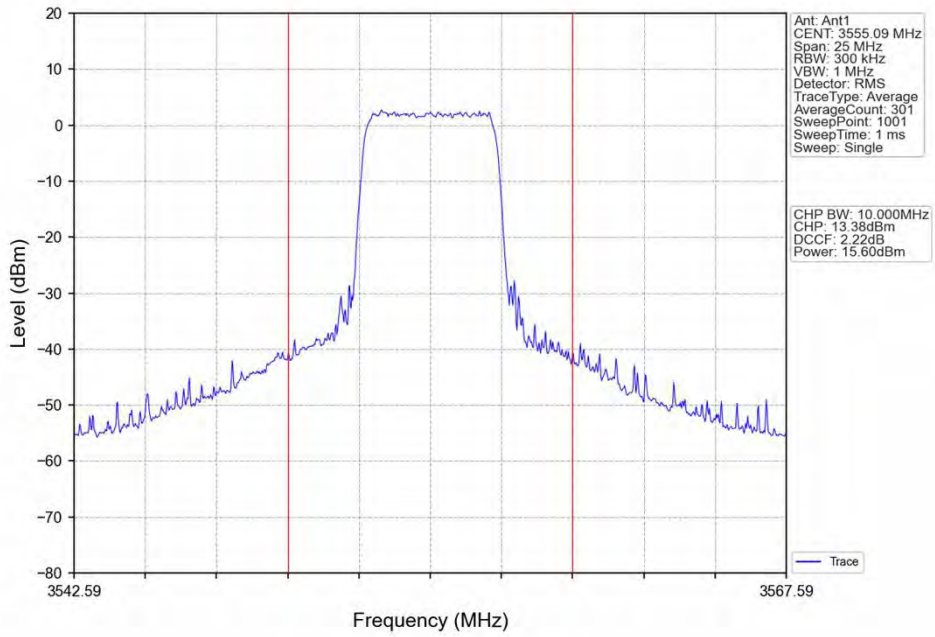
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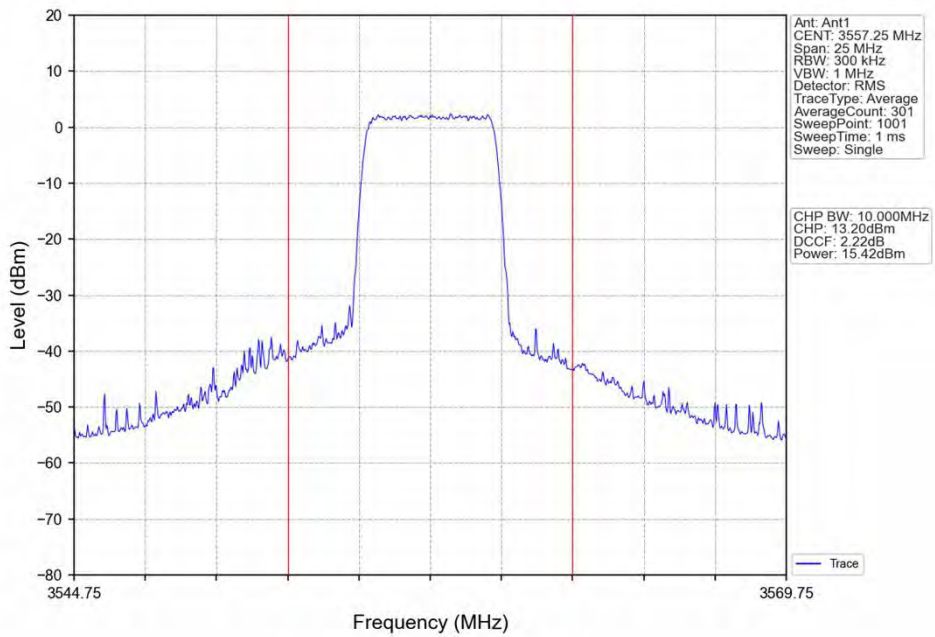
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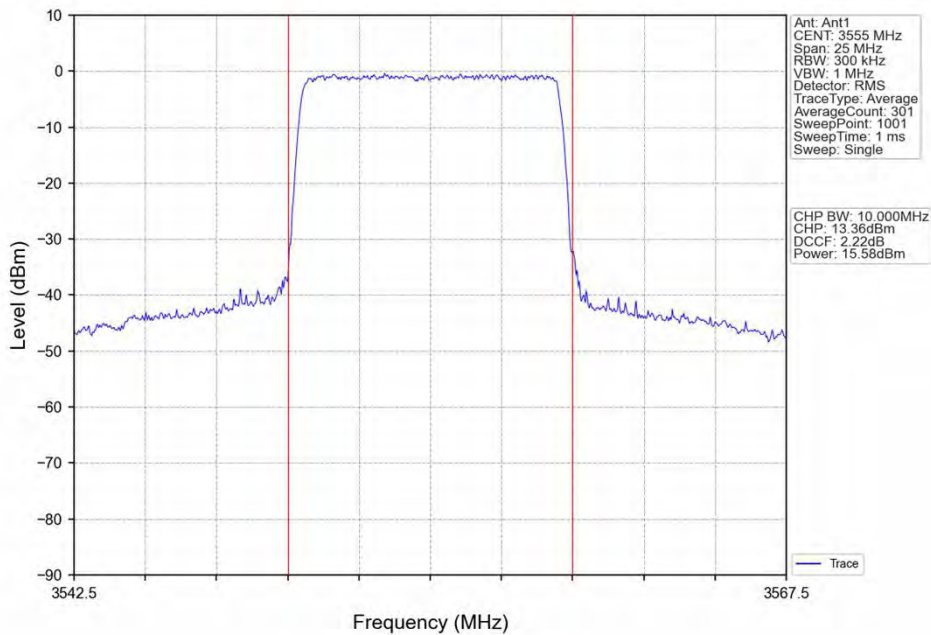
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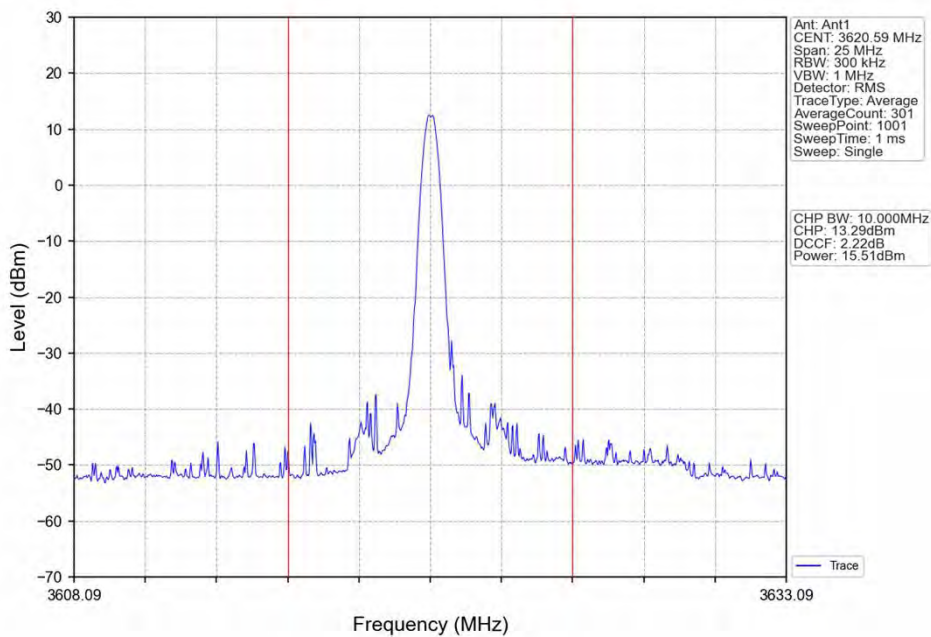
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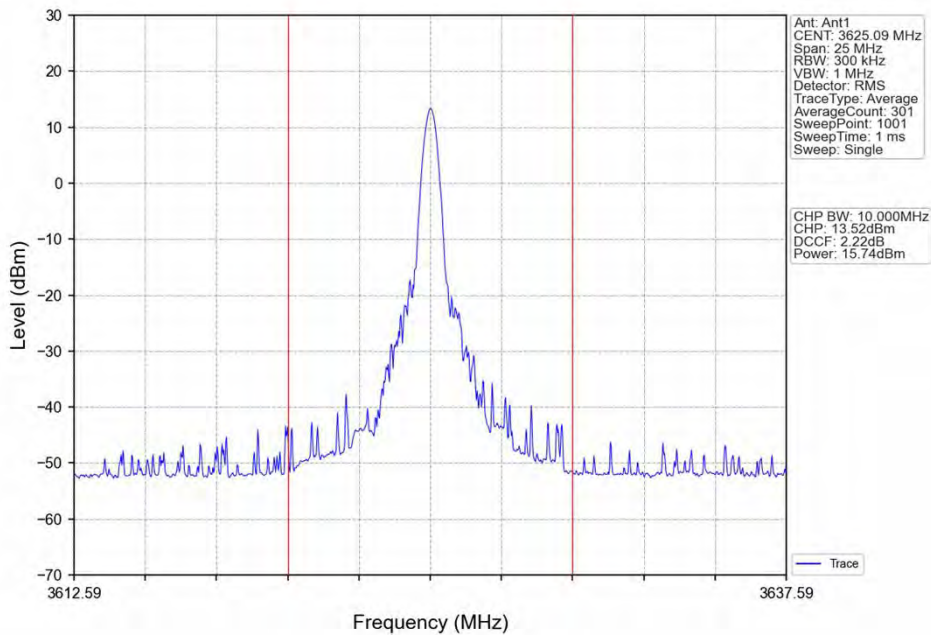
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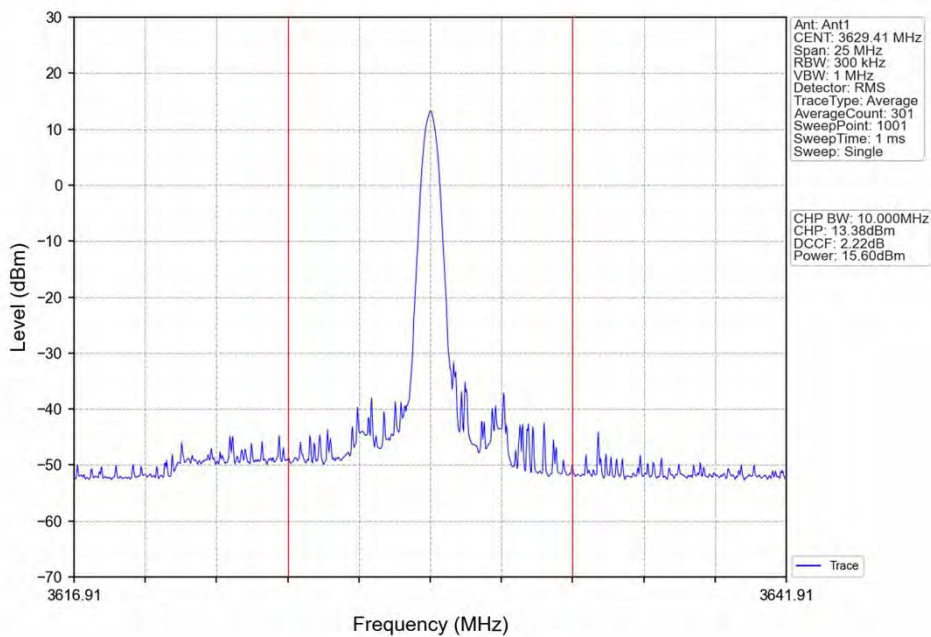
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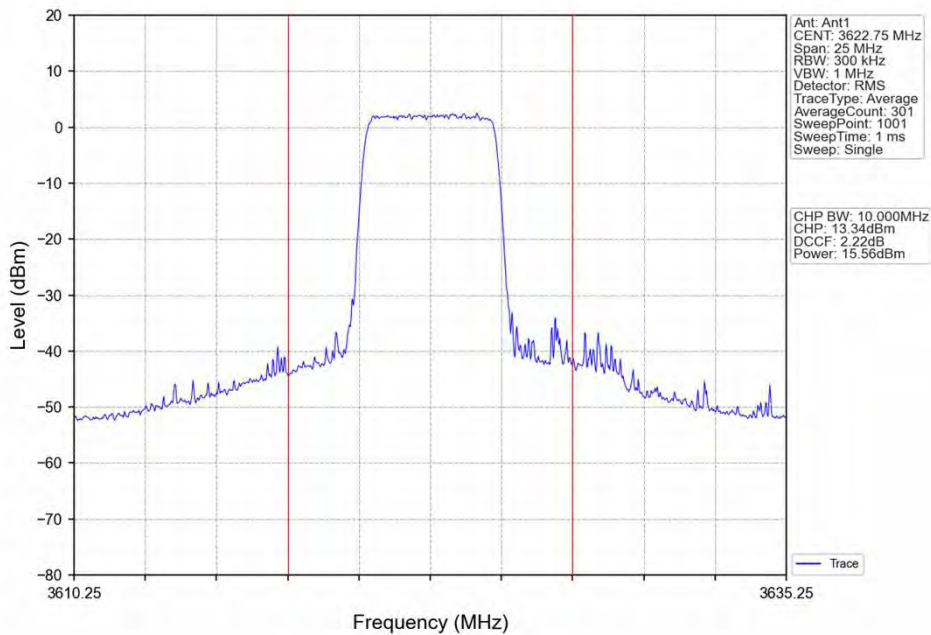
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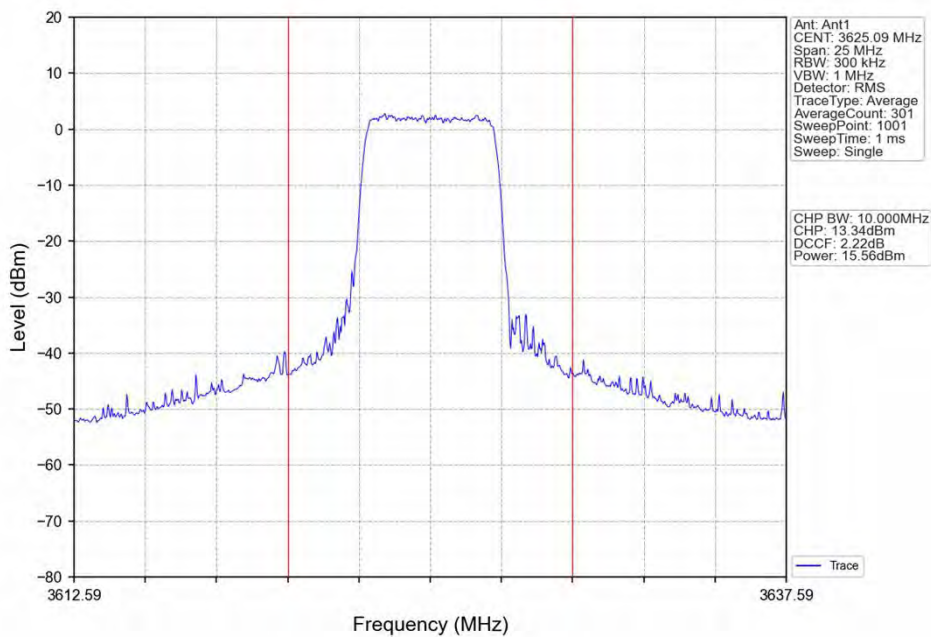
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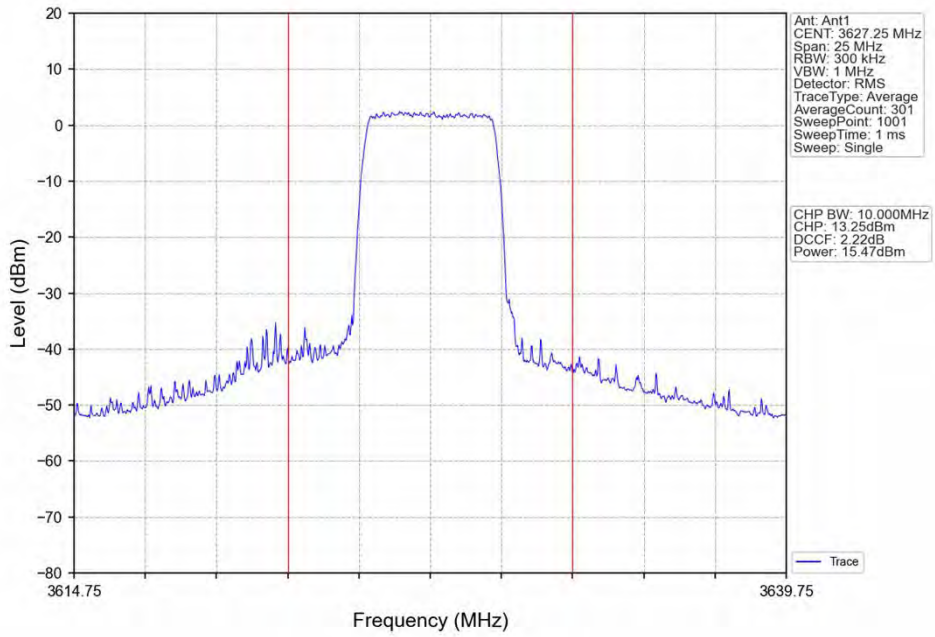
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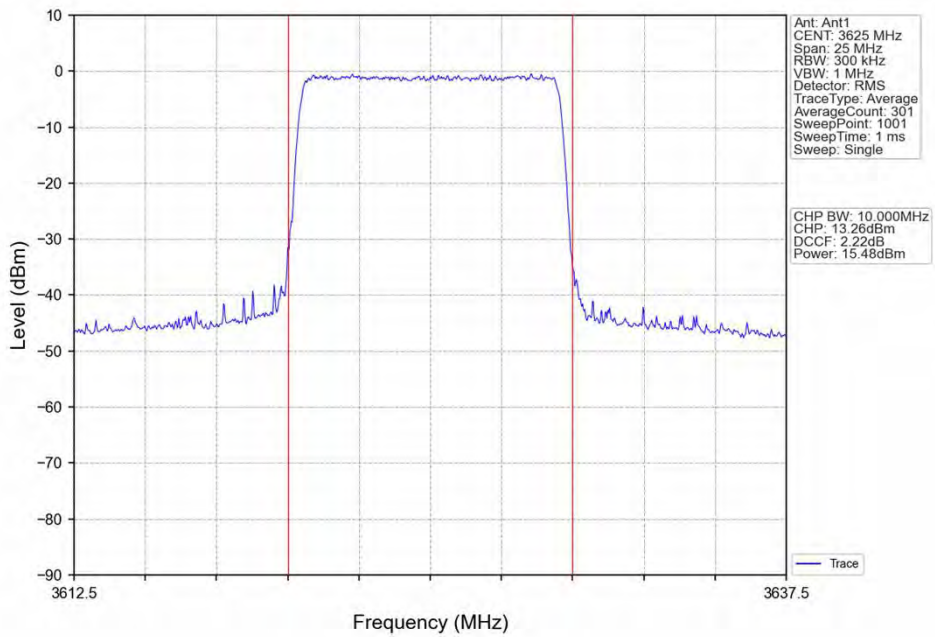
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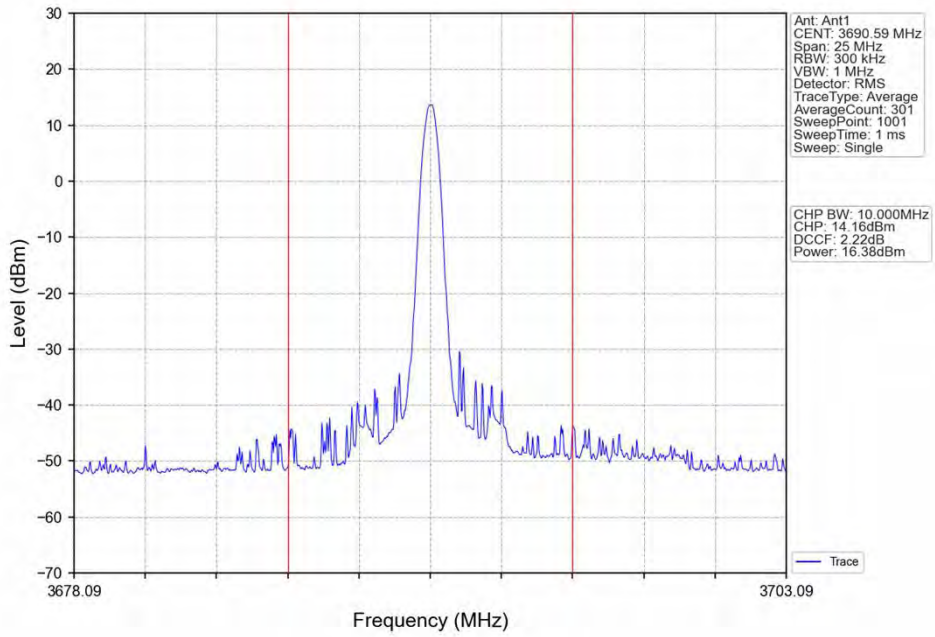
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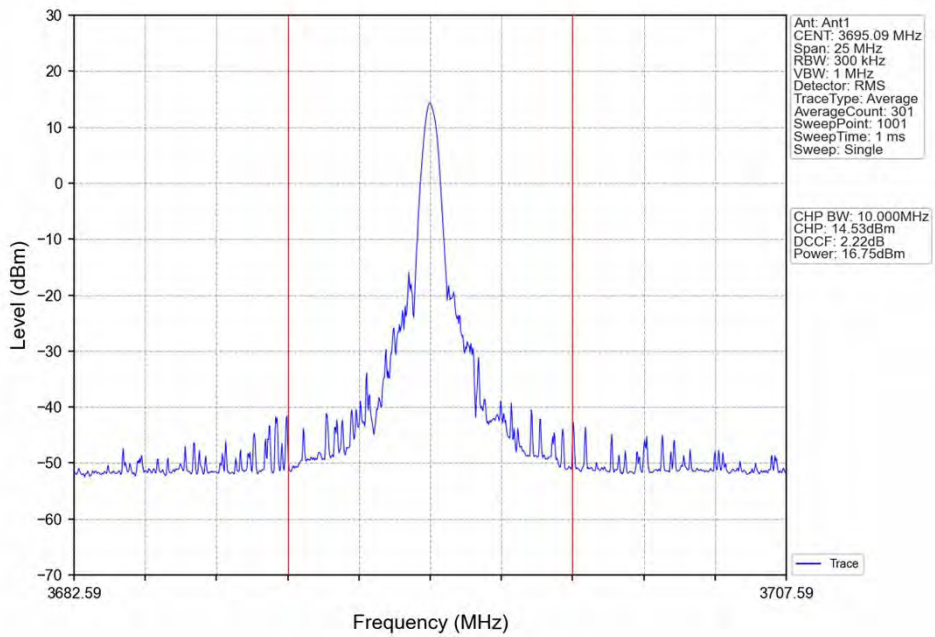
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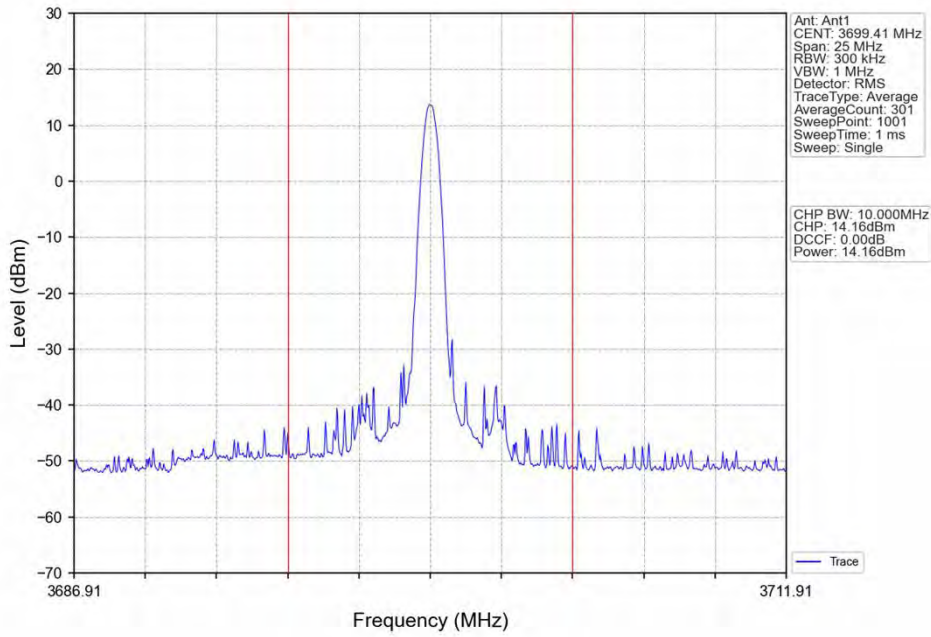
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