

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 B4\_1.4MHz\_EIRP

| Band: 4 / Bandwidth: 1.4MHz / NTV        |                 |               |        |                       |            |            |       |         |
|------------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                               | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                          |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                                     | 1710.7          | 1             | 0      | 22.71                 | -1.53      | 21.18      | <=30  | Pass    |
|                                          |                 |               | 2      | 23.33                 | -1.53      | 21.80      | <=30  | Pass    |
|                                          |                 |               | 5      | 24.00                 | -1.53      | 22.47      | <=30  | Pass    |
|                                          |                 | 3             | 0      | 23.89                 | -1.53      | 22.36      | <=30  | Pass    |
|                                          |                 |               | 2      | 24.04                 | -1.53      | 22.51      | <=30  | Pass    |
|                                          |                 |               | 3      | 24.01                 | -1.53      | 22.48      | <=30  | Pass    |
|                                          |                 | 6             | 0      | 22.89                 | -1.53      | 21.36      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 23.58                 | -1.53      | 22.05      | <=30  | Pass    |
|                                          |                 |               | 2      | 23.44                 | -1.53      | 21.91      | <=30  | Pass    |
|                                          |                 |               | 5      | 23.46                 | -1.53      | 21.93      | <=30  | Pass    |
|                                          |                 | 3             | 0      | 23.44                 | -1.53      | 21.91      | <=30  | Pass    |
|                                          |                 |               | 2      | 23.42                 | -1.53      | 21.89      | <=30  | Pass    |
|                                          |                 |               | 3      | 23.34                 | -1.53      | 21.81      | <=30  | Pass    |
|                                          |                 | 6             | 0      | 22.46                 | -1.53      | 20.93      | <=30  | Pass    |
|                                          | 1754.3          | 1             | 0      | 23.94                 | -1.53      | 22.41      | <=30  | Pass    |
|                                          |                 |               | 2      | 23.84                 | -1.53      | 22.31      | <=30  | Pass    |
|                                          |                 |               | 5      | 23.86                 | -1.53      | 22.33      | <=30  | Pass    |
|                                          |                 | 3             | 0      | 23.79                 | -1.53      | 22.26      | <=30  | Pass    |
|                                          |                 |               | 2      | 23.79                 | -1.53      | 22.26      | <=30  | Pass    |
|                                          |                 |               | 3      | 23.80                 | -1.53      | 22.27      | <=30  | Pass    |
|                                          |                 | 6             | 0      | 22.88                 | -1.53      | 21.35      | <=30  | Pass    |
| 16QAM                                    | 1710.7          | 1             | 0      | 22.68                 | -1.53      | 21.15      | <=30  | Pass    |
|                                          |                 |               | 2      | 22.71                 | -1.53      | 21.18      | <=30  | Pass    |
|                                          |                 |               | 5      | 22.86                 | -1.53      | 21.33      | <=30  | Pass    |
|                                          |                 | 3             | 0      | 22.59                 | -1.53      | 21.06      | <=30  | Pass    |
|                                          |                 |               | 2      | 22.65                 | -1.53      | 21.12      | <=30  | Pass    |
|                                          |                 |               | 3      | 22.64                 | -1.53      | 21.11      | <=30  | Pass    |
|                                          |                 | 6             | 0      | 21.41                 | -1.53      | 19.88      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 22.54                 | -1.53      | 21.01      | <=30  | Pass    |
|                                          |                 |               | 2      | 22.50                 | -1.53      | 20.97      | <=30  | Pass    |
|                                          |                 |               | 5      | 22.49                 | -1.53      | 20.96      | <=30  | Pass    |
|                                          |                 | 3             | 0      | 22.61                 | -1.53      | 21.08      | <=30  | Pass    |
|                                          |                 |               | 2      | 22.64                 | -1.53      | 21.11      | <=30  | Pass    |
|                                          |                 |               | 3      | 22.60                 | -1.53      | 21.07      | <=30  | Pass    |
|                                          |                 | 6             | 0      | 21.62                 | -1.53      | 20.09      | <=30  | Pass    |
|                                          | 1754.3          | 1             | 0      | 23.03                 | -1.53      | 21.50      | <=30  | Pass    |
|                                          |                 |               | 2      | 23.04                 | -1.53      | 21.51      | <=30  | Pass    |
|                                          |                 |               | 5      | 23.08                 | -1.53      | 21.55      | <=30  | Pass    |
|                                          |                 | 3             | 0      | 22.90                 | -1.53      | 21.37      | <=30  | Pass    |
|                                          |                 |               | 2      | 22.91                 | -1.53      | 21.38      | <=30  | Pass    |
|                                          |                 |               | 3      | 22.91                 | -1.53      | 21.38      | <=30  | Pass    |
|                                          |                 | 6             | 0      | 21.91                 | -1.53      | 20.38      | <=30  | Pass    |
| Note1: EIRP=Conducted Power+Antenna Gain |                 |               |        |                       |            |            |       |         |

### 1.1.2 B4\_3MHz\_EIRP

| Band: 4 / Bandwidth: 3MHz / NTN          |                 |               |        |                       |            |            |       |         |
|------------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                               | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                          |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                                     | 1711.5          | 1             | 0      | 22.92                 | -1.53      | 21.39      | <=30  | Pass    |
|                                          |                 |               | 7      | 23.25                 | -1.53      | 21.72      | <=30  | Pass    |
|                                          |                 |               | 14     | 23.30                 | -1.53      | 21.77      | <=30  | Pass    |
|                                          |                 | 8             | 0      | 22.02                 | -1.53      | 20.49      | <=30  | Pass    |
|                                          |                 |               | 4      | 22.31                 | -1.53      | 20.78      | <=30  | Pass    |
|                                          |                 |               | 7      | 22.37                 | -1.53      | 20.84      | <=30  | Pass    |
|                                          |                 | 15            | 0      | 22.24                 | -1.53      | 20.71      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 22.98                 | -1.53      | 21.45      | <=30  | Pass    |
|                                          |                 |               | 7      | 22.94                 | -1.53      | 21.41      | <=30  | Pass    |
|                                          |                 |               | 14     | 22.75                 | -1.53      | 21.22      | <=30  | Pass    |
|                                          |                 | 8             | 0      | 22.00                 | -1.53      | 20.47      | <=30  | Pass    |
|                                          |                 |               | 4      | 21.99                 | -1.53      | 20.46      | <=30  | Pass    |
|                                          |                 |               | 7      | 21.96                 | -1.53      | 20.43      | <=30  | Pass    |
|                                          |                 | 15            | 0      | 21.94                 | -1.53      | 20.41      | <=30  | Pass    |
|                                          | 1753.5          | 1             | 0      | 23.39                 | -1.53      | 21.86      | <=30  | Pass    |
|                                          |                 |               | 7      | 23.45                 | -1.53      | 21.92      | <=30  | Pass    |
|                                          |                 |               | 14     | 23.38                 | -1.53      | 21.85      | <=30  | Pass    |
|                                          |                 | 8             | 0      | 22.50                 | -1.53      | 20.97      | <=30  | Pass    |
|                                          |                 |               | 4      | 22.48                 | -1.53      | 20.95      | <=30  | Pass    |
|                                          |                 |               | 7      | 22.50                 | -1.53      | 20.97      | <=30  | Pass    |
|                                          |                 | 15            | 0      | 22.45                 | -1.53      | 20.92      | <=30  | Pass    |
| 16QAM                                    | 1711.5          | 1             | 0      | 22.50                 | -1.53      | 20.97      | <=30  | Pass    |
|                                          |                 |               | 7      | 22.90                 | -1.53      | 21.37      | <=30  | Pass    |
|                                          |                 |               | 14     | 23.00                 | -1.53      | 21.47      | <=30  | Pass    |
|                                          |                 | 8             | 0      | 21.34                 | -1.53      | 19.81      | <=30  | Pass    |
|                                          |                 |               | 4      | 21.59                 | -1.53      | 20.06      | <=30  | Pass    |
|                                          |                 |               | 7      | 21.69                 | -1.53      | 20.16      | <=30  | Pass    |
|                                          |                 | 15            | 0      | 21.43                 | -1.53      | 19.90      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 22.06                 | -1.53      | 20.53      | <=30  | Pass    |
|                                          |                 |               | 7      | 22.11                 | -1.53      | 20.58      | <=30  | Pass    |
|                                          |                 |               | 14     | 21.99                 | -1.53      | 20.46      | <=30  | Pass    |
|                                          |                 | 8             | 0      | 21.06                 | -1.53      | 19.53      | <=30  | Pass    |
|                                          |                 |               | 4      | 21.11                 | -1.53      | 19.58      | <=30  | Pass    |
|                                          |                 |               | 7      | 21.09                 | -1.53      | 19.56      | <=30  | Pass    |
|                                          |                 | 15            | 0      | 21.11                 | -1.53      | 19.58      | <=30  | Pass    |
|                                          | 1753.5          | 1             | 0      | 22.48                 | -1.53      | 20.95      | <=30  | Pass    |
|                                          |                 |               | 7      | 22.63                 | -1.53      | 21.10      | <=30  | Pass    |
|                                          |                 |               | 14     | 22.55                 | -1.53      | 21.02      | <=30  | Pass    |
|                                          |                 | 8             | 0      | 21.69                 | -1.53      | 20.16      | <=30  | Pass    |
|                                          |                 |               | 4      | 21.71                 | -1.53      | 20.18      | <=30  | Pass    |
|                                          |                 |               | 7      | 21.73                 | -1.53      | 20.20      | <=30  | Pass    |
|                                          |                 | 15            | 0      | 21.69                 | -1.53      | 20.16      | <=30  | Pass    |
| Note1: EIRP=Conducted Power+Antenna Gain |                 |               |        |                       |            |            |       |         |

### 1.1.3 B4\_5MHz\_EIRP

| Band: 4 / Bandwidth: 5MHz / NTNV         |                 |               |        |                       |            |            |       |         |
|------------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                               | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                          |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                                     | 1712.5          | 1             | 0      | 23.09                 | -1.53      | 21.56      | <=30  | Pass    |
|                                          |                 |               | 13     | 23.47                 | -1.53      | 21.94      | <=30  | Pass    |
|                                          |                 |               | 24     | 23.56                 | -1.53      | 22.03      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 22.00                 | -1.53      | 20.47      | <=30  | Pass    |
|                                          |                 |               | 6      | 22.30                 | -1.53      | 20.77      | <=30  | Pass    |
|                                          |                 |               | 13     | 22.39                 | -1.53      | 20.86      | <=30  | Pass    |
|                                          |                 | 25            | 0      | 22.21                 | -1.53      | 20.68      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 22.92                 | -1.53      | 21.39      | <=30  | Pass    |
|                                          |                 |               | 13     | 22.76                 | -1.53      | 21.23      | <=30  | Pass    |
|                                          |                 |               | 24     | 22.67                 | -1.53      | 21.14      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.70                 | -1.53      | 20.17      | <=30  | Pass    |
|                                          |                 |               | 6      | 21.76                 | -1.53      | 20.23      | <=30  | Pass    |
|                                          |                 |               | 13     | 21.67                 | -1.53      | 20.14      | <=30  | Pass    |
|                                          |                 | 25            | 0      | 21.68                 | -1.53      | 20.15      | <=30  | Pass    |
|                                          | 1752.5          | 1             | 0      | 23.07                 | -1.53      | 21.54      | <=30  | Pass    |
|                                          |                 |               | 13     | 23.29                 | -1.53      | 21.76      | <=30  | Pass    |
|                                          |                 |               | 24     | 23.18                 | -1.53      | 21.65      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 22.11                 | -1.53      | 20.58      | <=30  | Pass    |
|                                          |                 |               | 6      | 22.27                 | -1.53      | 20.74      | <=30  | Pass    |
|                                          |                 |               | 13     | 22.28                 | -1.53      | 20.75      | <=30  | Pass    |
|                                          |                 | 25            | 0      | 22.22                 | -1.53      | 20.69      | <=30  | Pass    |
| 16QAM                                    | 1712.5          | 1             | 0      | 21.68                 | -1.53      | 20.15      | <=30  | Pass    |
|                                          |                 |               | 13     | 22.32                 | -1.53      | 20.79      | <=30  | Pass    |
|                                          |                 |               | 24     | 22.46                 | -1.53      | 20.93      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.10                 | -1.53      | 19.57      | <=30  | Pass    |
|                                          |                 |               | 6      | 21.48                 | -1.53      | 19.95      | <=30  | Pass    |
|                                          |                 |               | 13     | 21.59                 | -1.53      | 20.06      | <=30  | Pass    |
|                                          |                 | 25            | 0      | 21.36                 | -1.53      | 19.83      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 22.12                 | -1.53      | 20.59      | <=30  | Pass    |
|                                          |                 |               | 13     | 22.01                 | -1.53      | 20.48      | <=30  | Pass    |
|                                          |                 |               | 24     | 22.00                 | -1.53      | 20.47      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 20.85                 | -1.53      | 19.32      | <=30  | Pass    |
|                                          |                 |               | 6      | 20.96                 | -1.53      | 19.43      | <=30  | Pass    |
|                                          |                 |               | 13     | 20.88                 | -1.53      | 19.35      | <=30  | Pass    |
|                                          |                 | 25            | 0      | 20.87                 | -1.53      | 19.34      | <=30  | Pass    |
|                                          | 1752.5          | 1             | 0      | 22.20                 | -1.53      | 20.67      | <=30  | Pass    |
|                                          |                 |               | 13     | 22.45                 | -1.53      | 20.92      | <=30  | Pass    |
|                                          |                 |               | 24     | 22.42                 | -1.53      | 20.89      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.26                 | -1.53      | 19.73      | <=30  | Pass    |
| 6                                        |                 |               | 21.44  | -1.53                 | 19.91      | <=30       | Pass  |         |
| 13                                       |                 |               | 21.46  | -1.53                 | 19.93      | <=30       | Pass  |         |
| 25                                       |                 | 0             | 21.44  | -1.53                 | 19.91      | <=30       | Pass  |         |
| Note1: EIRP=Conducted Power+Antenna Gain |                 |               |        |                       |            |            |       |         |

#### 1.1.4 B4\_10MHz\_EIRP

| Band: 4 / Bandwidth: 10MHz / NTNV        |                 |               |        |                       |            |            |       |         |
|------------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                               | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                          |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                                     | 1715            | 1             | 0      | 22.63                 | -1.53      | 21.10      | <=30  | Pass    |
|                                          |                 |               | 25     | 23.42                 | -1.53      | 21.89      | <=30  | Pass    |
|                                          |                 |               | 49     | 23.37                 | -1.53      | 21.84      | <=30  | Pass    |
|                                          |                 | 25            | 0      | 21.97                 | -1.53      | 20.44      | <=30  | Pass    |
|                                          |                 |               | 13     | 22.41                 | -1.53      | 20.88      | <=30  | Pass    |
|                                          |                 |               | 25     | 22.37                 | -1.53      | 20.84      | <=30  | Pass    |
|                                          |                 | 50            | 0      | 22.21                 | -1.53      | 20.68      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 22.75                 | -1.53      | 21.22      | <=30  | Pass    |
|                                          |                 |               | 25     | 22.60                 | -1.53      | 21.07      | <=30  | Pass    |
|                                          |                 |               | 49     | 22.68                 | -1.53      | 21.15      | <=30  | Pass    |
|                                          |                 | 25            | 0      | 21.60                 | -1.53      | 20.07      | <=30  | Pass    |
|                                          |                 |               | 13     | 21.50                 | -1.53      | 19.97      | <=30  | Pass    |
|                                          |                 |               | 25     | 21.51                 | -1.53      | 19.98      | <=30  | Pass    |
|                                          |                 | 50            | 0      | 21.55                 | -1.53      | 20.02      | <=30  | Pass    |
|                                          | 1750            | 1             | 0      | 22.79                 | -1.53      | 21.26      | <=30  | Pass    |
|                                          |                 |               | 25     | 22.84                 | -1.53      | 21.31      | <=30  | Pass    |
|                                          |                 |               | 49     | 22.91                 | -1.53      | 21.38      | <=30  | Pass    |
|                                          |                 | 25            | 0      | 21.65                 | -1.53      | 20.12      | <=30  | Pass    |
|                                          |                 |               | 13     | 21.88                 | -1.53      | 20.35      | <=30  | Pass    |
|                                          |                 |               | 25     | 21.89                 | -1.53      | 20.36      | <=30  | Pass    |
|                                          |                 | 50            | 0      | 21.77                 | -1.53      | 20.24      | <=30  | Pass    |
| 16QAM                                    | 1715            | 1             | 0      | 22.18                 | -1.53      | 20.65      | <=30  | Pass    |
|                                          |                 |               | 25     | 23.05                 | -1.53      | 21.52      | <=30  | Pass    |
|                                          |                 |               | 49     | 23.05                 | -1.53      | 21.52      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.94                 | -1.53      | 20.41      | <=30  | Pass    |
|                                          |                 |               | 19     | 22.53                 | -1.53      | 21.00      | <=30  | Pass    |
|                                          |                 |               | 38     | 22.59                 | -1.53      | 21.06      | <=30  | Pass    |
|                                          |                 | 27            | 0      | 21.12                 | -1.53      | 19.59      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 21.80                 | -1.53      | 20.27      | <=30  | Pass    |
|                                          |                 |               | 25     | 21.69                 | -1.53      | 20.16      | <=30  | Pass    |
|                                          |                 |               | 49     | 21.62                 | -1.53      | 20.09      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.63                 | -1.53      | 20.10      | <=30  | Pass    |
|                                          |                 |               | 19     | 21.56                 | -1.53      | 20.03      | <=30  | Pass    |
|                                          |                 |               | 38     | 21.49                 | -1.53      | 19.96      | <=30  | Pass    |
|                                          |                 | 27            | 0      | 20.62                 | -1.53      | 19.09      | <=30  | Pass    |
|                                          | 1750            | 1             | 0      | 21.85                 | -1.53      | 20.32      | <=30  | Pass    |
|                                          |                 |               | 25     | 21.95                 | -1.53      | 20.42      | <=30  | Pass    |
|                                          |                 |               | 49     | 22.10                 | -1.53      | 20.57      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.86                 | -1.53      | 20.33      | <=30  | Pass    |
| 19                                       |                 |               | 22.00  | -1.53                 | 20.47      | <=30       | Pass  |         |
| 38                                       |                 |               | 22.09  | -1.53                 | 20.56      | <=30       | Pass  |         |
| 27                                       |                 | 23            | 21.11  | -1.53                 | 19.58      | <=30       | Pass  |         |
| Note1: EIRP=Conducted Power+Antenna Gain |                 |               |        |                       |            |            |       |         |

### 1.1.5 B4\_15MHz\_EIRP

| Band: 4 / Bandwidth: 15MHz / NTNV        |                 |               |        |                       |            |            |       |         |
|------------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                               | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                          |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                                     | 1717.5          | 1             | 0      | 23.23                 | -1.53      | 21.70      | <=30  | Pass    |
|                                          |                 |               | 38     | 24.07                 | -1.53      | 22.54      | <=30  | Pass    |
|                                          |                 |               | 74     | 23.48                 | -1.53      | 21.95      | <=30  | Pass    |
|                                          |                 | 36            | 0      | 22.52                 | -1.53      | 20.99      | <=30  | Pass    |
|                                          |                 |               | 18     | 22.80                 | -1.53      | 21.27      | <=30  | Pass    |
|                                          |                 |               | 39     | 22.68                 | -1.53      | 21.15      | <=30  | Pass    |
|                                          |                 | 75            | 0      | 22.52                 | -1.53      | 20.99      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 23.55                 | -1.53      | 22.02      | <=30  | Pass    |
|                                          |                 |               | 38     | 23.04                 | -1.53      | 21.51      | <=30  | Pass    |
|                                          |                 |               | 74     | 22.97                 | -1.53      | 21.44      | <=30  | Pass    |
|                                          |                 | 36            | 0      | 21.99                 | -1.53      | 20.46      | <=30  | Pass    |
|                                          |                 |               | 18     | 21.90                 | -1.53      | 20.37      | <=30  | Pass    |
|                                          |                 |               | 39     | 21.83                 | -1.53      | 20.30      | <=30  | Pass    |
|                                          |                 | 75            | 0      | 21.75                 | -1.53      | 20.22      | <=30  | Pass    |
|                                          | 1747.5          | 1             | 0      | 23.45                 | -1.53      | 21.92      | <=30  | Pass    |
|                                          |                 |               | 38     | 23.47                 | -1.53      | 21.94      | <=30  | Pass    |
|                                          |                 |               | 74     | 23.38                 | -1.53      | 21.85      | <=30  | Pass    |
|                                          |                 | 36            | 0      | 22.12                 | -1.53      | 20.59      | <=30  | Pass    |
|                                          |                 |               | 18     | 22.29                 | -1.53      | 20.76      | <=30  | Pass    |
|                                          |                 |               | 39     | 22.31                 | -1.53      | 20.78      | <=30  | Pass    |
|                                          |                 | 75            | 0      | 22.15                 | -1.53      | 20.62      | <=30  | Pass    |
| 16QAM                                    | 1717.5          | 1             | 0      | 22.24                 | -1.53      | 20.71      | <=30  | Pass    |
|                                          |                 |               | 38     | 23.16                 | -1.53      | 21.63      | <=30  | Pass    |
|                                          |                 |               | 74     | 22.66                 | -1.53      | 21.13      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.93                 | -1.53      | 20.40      | <=30  | Pass    |
|                                          |                 |               | 31     | 22.39                 | -1.53      | 20.86      | <=30  | Pass    |
|                                          |                 |               | 63     | 22.20                 | -1.53      | 20.67      | <=30  | Pass    |
|                                          |                 | 27            | 0      | 21.32                 | -1.53      | 19.79      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 22.32                 | -1.53      | 20.79      | <=30  | Pass    |
|                                          |                 |               | 38     | 22.13                 | -1.53      | 20.60      | <=30  | Pass    |
|                                          |                 |               | 74     | 22.25                 | -1.53      | 20.72      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.64                 | -1.53      | 20.11      | <=30  | Pass    |
|                                          |                 |               | 31     | 21.66                 | -1.53      | 20.13      | <=30  | Pass    |
|                                          |                 |               | 63     | 21.55                 | -1.53      | 20.02      | <=30  | Pass    |
|                                          |                 | 27            | 0      | 20.78                 | -1.53      | 19.25      | <=30  | Pass    |
|                                          | 1747.5          | 1             | 0      | 22.36                 | -1.53      | 20.83      | <=30  | Pass    |
|                                          |                 |               | 38     | 22.54                 | -1.53      | 21.01      | <=30  | Pass    |
|                                          |                 |               | 74     | 22.64                 | -1.53      | 21.11      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.73                 | -1.53      | 20.20      | <=30  | Pass    |
|                                          |                 |               | 31     | 22.04                 | -1.53      | 20.51      | <=30  | Pass    |
|                                          |                 |               | 63     | 22.08                 | -1.53      | 20.55      | <=30  | Pass    |
|                                          |                 | 27            | 48     | 21.27                 | -1.53      | 19.74      | <=30  | Pass    |
| Note1: EIRP=Conducted Power+Antenna Gain |                 |               |        |                       |            |            |       |         |

### 1.1.6 B4\_20MHz\_EIRP

| Band: 4 / Bandwidth: 20MHz / NTNV        |                 |               |        |                       |            |            |       |         |
|------------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                               | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                          |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                                     | 1720            | 1             | 0      | 23.13                 | -1.53      | 21.60      | <=30  | Pass    |
|                                          |                 |               | 50     | 24.01                 | -1.53      | 22.48      | <=30  | Pass    |
|                                          |                 |               | 99     | 22.96                 | -1.53      | 21.43      | <=30  | Pass    |
|                                          |                 | 50            | 0      | 22.49                 | -1.53      | 20.96      | <=30  | Pass    |
|                                          |                 |               | 25     | 22.75                 | -1.53      | 21.22      | <=30  | Pass    |
|                                          |                 |               | 50     | 22.21                 | -1.53      | 20.68      | <=30  | Pass    |
|                                          |                 | 100           | 0      | 22.34                 | -1.53      | 20.81      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 23.64                 | -1.53      | 22.11      | <=30  | Pass    |
|                                          |                 |               | 50     | 23.07                 | -1.53      | 21.54      | <=30  | Pass    |
|                                          |                 |               | 99     | 22.92                 | -1.53      | 21.39      | <=30  | Pass    |
|                                          |                 | 50            | 0      | 21.89                 | -1.53      | 20.36      | <=30  | Pass    |
|                                          |                 |               | 25     | 21.82                 | -1.53      | 20.29      | <=30  | Pass    |
|                                          |                 |               | 50     | 21.73                 | -1.53      | 20.20      | <=30  | Pass    |
|                                          |                 | 100           | 0      | 21.68                 | -1.53      | 20.15      | <=30  | Pass    |
|                                          | 1745            | 1             | 0      | 23.12                 | -1.53      | 21.59      | <=30  | Pass    |
|                                          |                 |               | 50     | 23.34                 | -1.53      | 21.81      | <=30  | Pass    |
|                                          |                 |               | 99     | 23.28                 | -1.53      | 21.75      | <=30  | Pass    |
|                                          |                 | 50            | 0      | 21.93                 | -1.53      | 20.40      | <=30  | Pass    |
|                                          |                 |               | 25     | 22.11                 | -1.53      | 20.58      | <=30  | Pass    |
|                                          |                 |               | 50     | 22.10                 | -1.53      | 20.57      | <=30  | Pass    |
|                                          |                 | 100           | 0      | 21.94                 | -1.53      | 20.41      | <=30  | Pass    |
| 16QAM                                    | 1720            | 1             | 0      | 22.01                 | -1.53      | 20.48      | <=30  | Pass    |
|                                          |                 |               | 50     | 22.95                 | -1.53      | 21.42      | <=30  | Pass    |
|                                          |                 |               | 99     | 22.12                 | -1.53      | 20.59      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.93                 | -1.53      | 20.40      | <=30  | Pass    |
|                                          |                 |               | 44     | 22.31                 | -1.53      | 20.78      | <=30  | Pass    |
|                                          |                 |               | 88     | 21.77                 | -1.53      | 20.24      | <=30  | Pass    |
|                                          |                 | 27            | 0      | 21.09                 | -1.53      | 19.56      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 22.63                 | -1.53      | 21.10      | <=30  | Pass    |
|                                          |                 |               | 50     | 22.29                 | -1.53      | 20.76      | <=30  | Pass    |
|                                          |                 |               | 99     | 22.31                 | -1.53      | 20.78      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.81                 | -1.53      | 20.28      | <=30  | Pass    |
|                                          |                 |               | 44     | 21.73                 | -1.53      | 20.20      | <=30  | Pass    |
|                                          |                 |               | 88     | 21.57                 | -1.53      | 20.04      | <=30  | Pass    |
|                                          |                 | 27            | 0      | 20.79                 | -1.53      | 19.26      | <=30  | Pass    |
|                                          | 1745            | 1             | 0      | 22.05                 | -1.53      | 20.52      | <=30  | Pass    |
|                                          |                 |               | 50     | 22.63                 | -1.53      | 21.10      | <=30  | Pass    |
|                                          |                 |               | 99     | 22.62                 | -1.53      | 21.09      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.40                 | -1.53      | 19.87      | <=30  | Pass    |
|                                          |                 |               | 44     | 22.04                 | -1.53      | 20.51      | <=30  | Pass    |
|                                          |                 |               | 88     | 21.97                 | -1.53      | 20.44      | <=30  | Pass    |
|                                          |                 | 27            | 73     | 21.06                 | -1.53      | 19.53      | <=30  | Pass    |
| Note1: EIRP=Conducted Power+Antenna Gain |                 |               |        |                       |            |            |       |         |

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B4\_1.4MHz

| Band: 4 / Bandwidth: 1.4MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 1710.7          | 6             | 0      | 20         | 3.40          | -29.600          | -0.0173               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.70          | 4.100            | 0.0024                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.20          | -0.200           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.70          | 14.900           | 0.0087                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.70          | 17.900           | 0.0105                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.70          | 19.800           | 0.0116                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.70          | 17.000           | 0.0099                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.70          | 21.300           | 0.0125                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.70          | 23.200           | 0.0136                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.70          | 21.200           | 0.0124                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.70          | 21.100           | 0.0123                | -2.5 to 2.5 | Pass    |
|                             | 1732.5          | 6             | 0      | 20         | 3.40          | 18.400           | 0.0106                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.70          | 7.600            | 0.0044                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.20          | 11.500           | 0.0066                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.70          | 14.600           | 0.0084                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.70          | 24.800           | 0.0143                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.70          | 16.700           | 0.0096                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.70          | 10.900           | 0.0063                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.70          | 19.000           | 0.0110                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.70          | 17.600           | 0.0102                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.70          | 25.900           | 0.0149                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.70          | 18.600           | 0.0107                | -2.5 to 2.5 | Pass    |
|                             | 1754.3          | 6             | 0      | 20         | 3.40          | 6.700            | 0.0038                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.70          | 16.600           | 0.0095                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.20          | 12.400           | 0.0071                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.70          | 22.100           | 0.0126                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.70          | 15.200           | 0.0087                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.70          | 11.100           | 0.0063                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.70          | 26.500           | 0.0151                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.70          | 14.400           | 0.0082                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.70          | 9.600            | 0.0055                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.70          | 17.000           | 0.0097                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.70          | 11.800           | 0.0067                | -2.5 to 2.5 | Pass    |
| 16QAM                       | 1710.7          | 6             | 0      | 20         | 3.40          | 29.000           | 0.0170                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.70          | 20.500           | 0.0120                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.20          | 15.500           | 0.0091                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.70          | 21.200           | 0.0124                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.70          | 27.600           | 0.0161                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.70          | 25.800           | 0.0151                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.70          | 26.700           | 0.0156                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.70          | 13.200           | 0.0077                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.70          | 14.900           | 0.0087                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.70          | 15.300           | 0.0089                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.70          | 10.500           | 0.0061                | -2.5 to 2.5 | Pass    |
|                             | 1732.5          | 6             | 0      | 20         | 3.40          | 23.500           | 0.0136                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.70          | 15.100           | 0.0087                | -2.5 to 2.5 | Pass    |

|  |        |   |   |     |      |        |        |             |      |
|--|--------|---|---|-----|------|--------|--------|-------------|------|
|  |        |   |   |     | 4.20 | 22.200 | 0.0128 | -2.5 to 2.5 | Pass |
|  |        |   |   | -30 | 3.70 | 23.600 | 0.0136 | -2.5 to 2.5 | Pass |
|  |        |   |   | -20 | 3.70 | 23.400 | 0.0135 | -2.5 to 2.5 | Pass |
|  |        |   |   | -10 | 3.70 | 25.900 | 0.0149 | -2.5 to 2.5 | Pass |
|  |        |   |   | 0   | 3.70 | 16.700 | 0.0096 | -2.5 to 2.5 | Pass |
|  |        |   |   | 10  | 3.70 | 12.100 | 0.0070 | -2.5 to 2.5 | Pass |
|  |        |   |   | 30  | 3.70 | 21.000 | 0.0121 | -2.5 to 2.5 | Pass |
|  |        |   |   | 40  | 3.70 | 10.800 | 0.0062 | -2.5 to 2.5 | Pass |
|  |        |   |   | 50  | 3.70 | 9.200  | 0.0053 | -2.5 to 2.5 | Pass |
|  | 1754.3 | 6 | 0 | 20  | 3.40 | 11.000 | 0.0063 | -2.5 to 2.5 | Pass |
|  |        |   |   |     | 3.70 | 18.100 | 0.0103 | -2.5 to 2.5 | Pass |
|  |        |   |   |     | 4.20 | 15.400 | 0.0088 | -2.5 to 2.5 | Pass |
|  |        |   |   | -30 | 3.70 | 18.200 | 0.0104 | -2.5 to 2.5 | Pass |
|  |        |   |   | -20 | 3.70 | 10.600 | 0.0060 | -2.5 to 2.5 | Pass |
|  |        |   |   | -10 | 3.70 | 13.700 | 0.0078 | -2.5 to 2.5 | Pass |
|  |        |   |   | 0   | 3.70 | 14.000 | 0.0080 | -2.5 to 2.5 | Pass |
|  |        |   |   | 10  | 3.70 | 18.500 | 0.0105 | -2.5 to 2.5 | Pass |
|  |        |   |   | 30  | 3.70 | 8.300  | 0.0047 | -2.5 to 2.5 | Pass |
|  |        |   |   | 40  | 3.70 | 10.700 | 0.0061 | -2.5 to 2.5 | Pass |
|  |        |   |   | 50  | 3.70 | 15.300 | 0.0087 | -2.5 to 2.5 | Pass |

## 2.1.2 B4\_3MHz

| Band: 4 / Bandwidth: 3MHz |                 |               |        |            |               |                  |                       |             |         |
|---------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                           |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                      | 1711.5          | 15            | 0      | 20         | 3.40          | -20.200          | -0.0118               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.70          | -20.900          | -0.0122               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.20          | -20.000          | -0.0117               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.70          | -22.300          | -0.0130               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 3.70          | 5.500            | 0.0032                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 3.70          | 18.600           | 0.0109                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 3.70          | 9.800            | 0.0057                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 3.70          | 12.700           | 0.0074                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 3.70          | 18.700           | 0.0109                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 3.70          | 10.100           | 0.0059                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 3.70          | 6.500            | 0.0038                | -2.5 to 2.5 | Pass    |
|                           | 1732.5          | 15            | 0      | 20         | 3.40          | -13.900          | -0.0080               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.70          | -22.400          | -0.0129               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.20          | -7.000           | -0.0040               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.70          | 9.200            | 0.0053                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 3.70          | 11.600           | 0.0067                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 3.70          | 16.400           | 0.0095                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 3.70          | 20.200           | 0.0117                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 3.70          | 19.000           | 0.0110                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 3.70          | 16.600           | 0.0096                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 3.70          | 20.500           | 0.0118                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 3.70          | 15.900           | 0.0092                | -2.5 to 2.5 | Pass    |
|                           | 1753.5          | 15            | 0      | 20         | 3.40          | 13.300           | 0.0076                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.70          | -15.300          | -0.0087               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.20          | -11.400          | -0.0065               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.70          | 10.200           | 0.0058                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 3.70          | 12.000           | 0.0068                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 3.70          | 25.500           | 0.0145                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 3.70          | 14.800           | 0.0084                | -2.5 to 2.5 | Pass    |

|       |        |    |   |     |      |         |         |             |      |
|-------|--------|----|---|-----|------|---------|---------|-------------|------|
|       |        |    |   | 10  | 3.70 | 16.800  | 0.0096  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.70 | 20.000  | 0.0114  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.70 | 10.500  | 0.0060  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.70 | 17.300  | 0.0099  | -2.5 to 2.5 | Pass |
| 16QAM | 1711.5 | 15 | 0 | 20  | 3.40 | 20.100  | 0.0117  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.70 | 16.000  | 0.0093  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.20 | 23.500  | 0.0137  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.70 | 10.600  | 0.0062  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.70 | 16.300  | 0.0095  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.70 | 14.200  | 0.0083  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.70 | 5.600   | 0.0033  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.70 | 9.200   | 0.0054  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.70 | 5.000   | 0.0029  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.70 | 3.500   | 0.0020  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.70 | -3.800  | -0.0022 | -2.5 to 2.5 | Pass |
|       | 1732.5 | 15 | 0 | 20  | 3.40 | 24.700  | 0.0143  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.70 | 24.600  | 0.0142  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.20 | 12.000  | 0.0069  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.70 | 20.200  | 0.0117  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.70 | 7.200   | 0.0042  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.70 | 22.900  | 0.0132  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.70 | 13.000  | 0.0075  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.70 | 16.700  | 0.0096  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.70 | 15.700  | 0.0091  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.70 | 10.500  | 0.0061  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.70 | 13.900  | 0.0080  | -2.5 to 2.5 | Pass |
|       | 1753.5 | 15 | 0 | 20  | 3.40 | 12.900  | 0.0074  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.70 | 23.400  | 0.0133  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.20 | 23.700  | 0.0135  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.70 | 14.200  | 0.0081  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.70 | 12.200  | 0.0070  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.70 | -0.900  | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.70 | -18.300 | -0.0104 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.70 | -8.500  | -0.0048 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.70 | -22.200 | -0.0127 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.70 | -16.300 | -0.0093 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.70 | -8.500  | -0.0048 | -2.5 to 2.5 | Pass |

### 2.1.3 B4\_5MHz

| Band: 4 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |             |         |
|---------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                           |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                      | 1712.5          | 25            | 0      | 20         | 3.40          | -10.300          | -0.0060               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.70          | -23.000          | -0.0134               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.20          | -24.600          | -0.0144               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.70          | -10.700          | -0.0062               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 3.70          | -17.600          | -0.0103               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 3.70          | -7.600           | -0.0044               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 3.70          | 8.200            | 0.0048                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 3.70          | 20.800           | 0.0121                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 3.70          | 19.300           | 0.0113                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 3.70          | 8.100            | 0.0047                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 3.70          | 14.600           | 0.0085                | -2.5 to 2.5 | Pass    |
|                           | 1732.5          | 25            | 0      | 20         | 3.40          | -9.000           | -0.0052               | -2.5 to 2.5 | Pass    |

|       |        |    |   |     |      |         |         |             |      |
|-------|--------|----|---|-----|------|---------|---------|-------------|------|
|       |        |    |   |     | 3.70 | -8.800  | -0.0051 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.20 | -18.400 | -0.0106 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.70 | -1.700  | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.70 | 19.500  | 0.0113  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.70 | 13.900  | 0.0080  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.70 | 15.900  | 0.0092  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.70 | 24.000  | 0.0139  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.70 | 19.100  | 0.0110  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.70 | 22.300  | 0.0129  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.70 | 18.400  | 0.0106  | -2.5 to 2.5 | Pass |
|       | 1752.5 | 25 | 0 | 20  | 3.40 | -19.500 | -0.0111 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.70 | -12.600 | -0.0072 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.20 | -12.000 | -0.0068 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.70 | -11.300 | -0.0064 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.70 | 21.200  | 0.0121  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.70 | 7.600   | 0.0043  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.70 | 26.900  | 0.0153  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.70 | 7.900   | 0.0045  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.70 | 9.500   | 0.0054  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.70 | 19.700  | 0.0112  | -2.5 to 2.5 | Pass |
| 16QAM | 1712.5 | 25 | 0 | 20  | 3.40 | 18.300  | 0.0107  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.70 | 22.700  | 0.0133  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.20 | 21.100  | 0.0123  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.70 | 15.100  | 0.0088  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.70 | 5.000   | 0.0029  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.70 | -13.700 | -0.0080 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.70 | -26.200 | -0.0153 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.70 | -19.700 | -0.0115 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.70 | -22.400 | -0.0131 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.70 | -23.500 | -0.0137 | -2.5 to 2.5 | Pass |
|       | 1732.5 | 25 | 0 | 20  | 3.40 | -10.600 | -0.0062 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.40 | 9.600   | 0.0055  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.70 | 17.300  | 0.0100  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 4.20 | 18.300  | 0.0106  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.70 | 11.200  | 0.0065  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.70 | 13.400  | 0.0077  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.70 | 10.800  | 0.0062  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.70 | 17.100  | 0.0099  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.70 | 22.200  | 0.0128  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.70 | 14.000  | 0.0081  | -2.5 to 2.5 | Pass |
|       | 1752.5 | 25 | 0 | 20  | 4.20 | 14.900  | 0.0086  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.70 | 8.700   | 0.0050  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.40 | 18.400  | 0.0105  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.70 | 9.800   | 0.0056  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.20 | 9.400   | 0.0054  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.70 | 21.000  | 0.0120  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.70 | 12.600  | 0.0072  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.70 | -0.300  | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.70 | -22.500 | -0.0128 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.70 | -14.700 | -0.0084 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.70 | -13.000 | -0.0074 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.70 | -15.400 | -0.0088 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.70 | -19.800 | -0.0113 | -2.5 to 2.5 | Pass |

## 2.1.4 B4\_10MHz

| Band: 4 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 1715            | 50            | 0      | 20         | 3.40          | -17.100          | -0.0100               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.70          | -19.400          | -0.0113               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.20          | -12.500          | -0.0073               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.70          | -19.600          | -0.0114               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.70          | -9.900           | -0.0058               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.70          | -18.800          | -0.0110               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.70          | -22.500          | -0.0131               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.70          | -19.100          | -0.0111               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.70          | -17.600          | -0.0103               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.70          | -11.300          | -0.0066               | -2.5 to 2.5 | Pass    |
|                            | 1732.5          | 50            | 0      | 50         | 3.70          | -22.600          | -0.0132               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 20         | 3.40          | -20.400          | -0.0118               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.70          | -6.500           | -0.0038               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.20          | -18.200          | -0.0105               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.70          | -13.600          | -0.0078               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.70          | 10.700           | 0.0062                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.70          | 9.200            | 0.0053                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.70          | 20.200           | 0.0117                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.70          | 15.600           | 0.0090                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.70          | 8.100            | 0.0047                | -2.5 to 2.5 | Pass    |
|                            | 1750            | 50            | 0      | 40         | 3.70          | 10.600           | 0.0061                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.70          | 15.400           | 0.0089                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 20         | 3.40          | -13.300          | -0.0076               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.70          | -7.900           | -0.0045               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.20          | -22.000          | -0.0126               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.70          | 2.500            | 0.0014                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.70          | 25.100           | 0.0143                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.70          | 14.700           | 0.0084                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.70          | 11.900           | 0.0068                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.70          | 25.700           | 0.0147                | -2.5 to 2.5 | Pass    |
| 16QAM                      | 1715            | 27            | 0      | 30         | 3.70          | 15.700           | 0.0090                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.70          | 22.100           | 0.0126                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.70          | 25.700           | 0.0147                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 20         | 3.40          | -12.700          | -0.0074               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.70          | -14.700          | -0.0086               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.20          | -23.100          | -0.0135               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.70          | -25.000          | -0.0146               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.70          | -16.100          | -0.0094               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.70          | -23.400          | -0.0136               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.70          | -13.700          | -0.0080               | -2.5 to 2.5 | Pass    |
|                            | 1732.5          | 27            | 0      | 10         | 3.70          | -22.600          | -0.0132               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.70          | -15.400          | -0.0090               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.70          | -12.700          | -0.0074               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.70          | -12.100          | -0.0071               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 20         | 3.40          | 14.700           | 0.0085                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.70          | 10.000           | 0.0058                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.20          | 9.100            | 0.0053                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.70          | 13.600           | 0.0078                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.70          | 21.000           | 0.0121                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.70          | 18.400           | 0.0106                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.70          | 23.000           | 0.0133                | -2.5 to 2.5 | Pass    |

|  |      |    |    |     |      |         |         |             |      |
|--|------|----|----|-----|------|---------|---------|-------------|------|
|  |      |    |    | 10  | 3.70 | 20.800  | 0.0120  | -2.5 to 2.5 | Pass |
|  |      |    |    | 30  | 3.70 | 21.000  | 0.0121  | -2.5 to 2.5 | Pass |
|  |      |    |    | 40  | 3.70 | 7.500   | 0.0043  | -2.5 to 2.5 | Pass |
|  |      |    |    | 50  | 3.70 | 1.200   | 0.0007  | -2.5 to 2.5 | Pass |
|  | 1750 | 27 | 23 | 20  | 3.40 | 17.000  | 0.0097  | -2.5 to 2.5 | Pass |
|  |      |    |    |     | 3.70 | 19.700  | 0.0113  | -2.5 to 2.5 | Pass |
|  |      |    |    |     | 4.20 | 22.800  | 0.0130  | -2.5 to 2.5 | Pass |
|  |      |    |    | -30 | 3.70 | 18.400  | 0.0105  | -2.5 to 2.5 | Pass |
|  |      |    |    | -20 | 3.70 | -3.000  | -0.0017 | -2.5 to 2.5 | Pass |
|  |      |    |    | -10 | 3.70 | -13.300 | -0.0076 | -2.5 to 2.5 | Pass |
|  |      |    |    | 0   | 3.70 | -10.000 | -0.0057 | -2.5 to 2.5 | Pass |
|  |      |    |    | 10  | 3.70 | -8.900  | -0.0051 | -2.5 to 2.5 | Pass |
|  |      |    |    | 30  | 3.70 | -10.800 | -0.0062 | -2.5 to 2.5 | Pass |
|  |      |    |    | 40  | 3.70 | -23.000 | -0.0131 | -2.5 to 2.5 | Pass |
|  |      |    |    | 50  | 3.70 | -11.000 | -0.0063 | -2.5 to 2.5 | Pass |

## 2.1.5 B4\_15MHz

| Band: 4 / Bandwidth: 15MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 1717.5          | 75            | 0      | 20         | 3.40          | -20.285          | -0.0118               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.70          | -21.658          | -0.0126               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.20          | -18.640          | -0.0109               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.70          | -18.911          | -0.0110               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.70          | -18.497          | -0.0108               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.70          | -18.268          | -0.0106               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.70          | -17.910          | -0.0104               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.70          | -18.110          | -0.0105               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.70          | -20.528          | -0.0120               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.70          | -22.802          | -0.0133               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.70          | -17.195          | -0.0100               | -2.5 to 2.5 | Pass    |
|                            | 1732.5          | 75            | 0      | 20         | 3.40          | -10.300          | -0.0059               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.70          | -19.600          | -0.0113               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.20          | -13.900          | -0.0080               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.70          | -8.900           | -0.0051               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.70          | -13.200          | -0.0076               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.70          | -12.900          | -0.0074               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.70          | -15.500          | -0.0089               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.70          | -20.600          | -0.0119               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.70          | -8.000           | -0.0046               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.70          | -17.100          | -0.0099               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.70          | -12.600          | -0.0073               | -2.5 to 2.5 | Pass    |
|                            | 1747.5          | 75            | 0      | 20         | 3.40          | 13.900           | 0.0080                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.70          | 21.300           | 0.0122                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.20          | 16.100           | 0.0092                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.70          | 22.900           | 0.0131                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.70          | 25.700           | 0.0147                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.70          | 9.100            | 0.0052                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.70          | 21.900           | 0.0125                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.70          | 19.400           | 0.0111                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.70          | 12.100           | 0.0069                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.70          | 12.800           | 0.0073                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.70          | 21.800           | 0.0125                | -2.5 to 2.5 | Pass    |
| 16QAM                      | 1717.5          | 27            | 0      | 20         | 3.40          | -20.700          | -0.0121               | -2.5 to 2.5 | Pass    |

|  |        |    |    |     |      |         |         |             |      |
|--|--------|----|----|-----|------|---------|---------|-------------|------|
|  |        |    |    |     | 3.70 | -22.700 | -0.0132 | -2.5 to 2.5 | Pass |
|  |        |    |    |     | 4.20 | -14.400 | -0.0084 | -2.5 to 2.5 | Pass |
|  |        |    |    | -30 | 3.70 | -27.600 | -0.0161 | -2.5 to 2.5 | Pass |
|  |        |    |    | -20 | 3.70 | -9.800  | -0.0057 | -2.5 to 2.5 | Pass |
|  |        |    |    | -10 | 3.70 | -22.000 | -0.0128 | -2.5 to 2.5 | Pass |
|  |        |    |    | 0   | 3.70 | -26.900 | -0.0157 | -2.5 to 2.5 | Pass |
|  |        |    |    | 10  | 3.70 | -9.300  | -0.0054 | -2.5 to 2.5 | Pass |
|  |        |    |    | 30  | 3.70 | -15.600 | -0.0091 | -2.5 to 2.5 | Pass |
|  |        |    |    | 40  | 3.70 | -23.400 | -0.0136 | -2.5 to 2.5 | Pass |
|  |        |    |    | 50  | 3.70 | -19.000 | -0.0111 | -2.5 to 2.5 | Pass |
|  | 1732.5 | 27 | 0  | 20  | 3.40 | 17.400  | 0.0100  | -2.5 to 2.5 | Pass |
|  |        |    |    |     | 3.70 | 18.600  | 0.0107  | -2.5 to 2.5 | Pass |
|  |        |    |    |     | 4.20 | 14.300  | 0.0083  | -2.5 to 2.5 | Pass |
|  |        |    |    | -30 | 3.70 | 14.000  | 0.0081  | -2.5 to 2.5 | Pass |
|  |        |    |    | -20 | 3.70 | 23.000  | 0.0133  | -2.5 to 2.5 | Pass |
|  |        |    |    | -10 | 3.70 | 16.400  | 0.0095  | -2.5 to 2.5 | Pass |
|  |        |    |    | 0   | 3.70 | 16.500  | 0.0095  | -2.5 to 2.5 | Pass |
|  |        |    |    | 10  | 3.70 | 19.200  | 0.0111  | -2.5 to 2.5 | Pass |
|  |        |    |    | 30  | 3.70 | 12.500  | 0.0072  | -2.5 to 2.5 | Pass |
|  |        |    |    | 40  | 3.70 | 9.700   | 0.0056  | -2.5 to 2.5 | Pass |
|  |        |    |    | 50  | 3.70 | 22.000  | 0.0127  | -2.5 to 2.5 | Pass |
|  | 1747.5 | 27 | 48 | 20  | 3.40 | 8.900   | 0.0051  | -2.5 to 2.5 | Pass |
|  |        |    |    |     | 3.70 | 13.000  | 0.0074  | -2.5 to 2.5 | Pass |
|  |        |    |    |     | 4.20 | 21.000  | 0.0120  | -2.5 to 2.5 | Pass |
|  |        |    |    | -30 | 3.70 | 26.600  | 0.0152  | -2.5 to 2.5 | Pass |
|  |        |    |    | -20 | 3.70 | 26.000  | 0.0149  | -2.5 to 2.5 | Pass |
|  |        |    |    | -10 | 3.70 | 18.100  | 0.0104  | -2.5 to 2.5 | Pass |
|  |        |    |    | 0   | 3.70 | 13.500  | 0.0077  | -2.5 to 2.5 | Pass |
|  |        |    |    | 10  | 3.70 | 22.900  | 0.0131  | -2.5 to 2.5 | Pass |
|  |        |    |    | 30  | 3.70 | 8.600   | 0.0049  | -2.5 to 2.5 | Pass |
|  |        |    |    | 40  | 3.70 | 13.200  | 0.0076  | -2.5 to 2.5 | Pass |
|  |        |    |    | 50  | 3.70 | 14.700  | 0.0084  | -2.5 to 2.5 | Pass |

## 2.1.6 B4\_20MHz

| Band: 4 / Bandwidth: 20MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 1720            | 100           | 0      | 20         | 3.40          | -22.717          | -0.0132               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.70          | -21.901          | -0.0127               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.20          | -15.922          | -0.0093               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.70          | -14.191          | -0.0083               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.70          | -16.680          | -0.0097               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.70          | -8.039           | -0.0047               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.70          | 15.750           | 0.0092                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.70          | 16.909           | 0.0098                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.70          | 14.133           | 0.0082                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.70          | 14.763           | 0.0086                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.70          | 16.208           | 0.0094                | -2.5 to 2.5 | Pass    |
|                            | 1732.5          | 100           | 0      | 20         | 3.40          | -27.400          | -0.0158               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.70          | -21.800          | -0.0126               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.20          | -19.400          | -0.0112               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.70          | -16.500          | -0.0095               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.70          | -10.800          | -0.0062               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.70          | -21.500          | -0.0124               | -2.5 to 2.5 | Pass    |

|       |        |     |    |     |      |         |         |             |      |
|-------|--------|-----|----|-----|------|---------|---------|-------------|------|
|       |        |     |    | 0   | 3.70 | -16.800 | -0.0097 | -2.5 to 2.5 | Pass |
|       |        |     |    | 10  | 3.70 | -17.900 | -0.0103 | -2.5 to 2.5 | Pass |
|       |        |     |    | 30  | 3.70 | -24.600 | -0.0142 | -2.5 to 2.5 | Pass |
|       |        |     |    | 40  | 3.70 | -13.500 | -0.0078 | -2.5 to 2.5 | Pass |
|       |        |     |    | 50  | 3.70 | -14.200 | -0.0082 | -2.5 to 2.5 | Pass |
|       | 1745   | 100 | 0  | 20  | 3.40 | 4.500   | 0.0026  | -2.5 to 2.5 | Pass |
|       |        |     |    |     | 3.70 | 2.600   | 0.0015  | -2.5 to 2.5 | Pass |
|       |        |     |    |     | 4.20 | 8.900   | 0.0051  | -2.5 to 2.5 | Pass |
|       |        |     |    | -30 | 3.70 | 7.400   | 0.0042  | -2.5 to 2.5 | Pass |
|       |        |     |    | -20 | 3.70 | 18.800  | 0.0108  | -2.5 to 2.5 | Pass |
|       |        |     |    | -10 | 3.70 | 17.000  | 0.0097  | -2.5 to 2.5 | Pass |
|       |        |     |    | 0   | 3.70 | 10.500  | 0.0060  | -2.5 to 2.5 | Pass |
|       |        |     |    | 10  | 3.70 | 8.700   | 0.0050  | -2.5 to 2.5 | Pass |
|       |        |     |    | 30  | 3.70 | 16.100  | 0.0092  | -2.5 to 2.5 | Pass |
|       |        |     |    | 40  | 3.70 | 13.400  | 0.0077  | -2.5 to 2.5 | Pass |
|       |        |     |    | 50  | 3.70 | 11.500  | 0.0066  | -2.5 to 2.5 | Pass |
| 16QAM | 1720   | 27  | 0  | 20  | 3.40 | -26.900 | -0.0156 | -2.5 to 2.5 | Pass |
|       |        |     |    |     | 3.70 | -19.200 | -0.0112 | -2.5 to 2.5 | Pass |
|       |        |     |    |     | 4.20 | -21.200 | -0.0123 | -2.5 to 2.5 | Pass |
|       |        |     |    | -30 | 3.70 | -27.800 | -0.0162 | -2.5 to 2.5 | Pass |
|       |        |     |    | -20 | 3.70 | -17.800 | -0.0103 | -2.5 to 2.5 | Pass |
|       |        |     |    | -10 | 3.70 | -13.100 | -0.0076 | -2.5 to 2.5 | Pass |
|       |        |     |    | 0   | 3.70 | -12.100 | -0.0070 | -2.5 to 2.5 | Pass |
|       |        |     |    | 10  | 3.70 | -22.700 | -0.0132 | -2.5 to 2.5 | Pass |
|       |        |     |    | 30  | 3.70 | -19.100 | -0.0111 | -2.5 to 2.5 | Pass |
|       |        |     |    | 40  | 3.70 | -23.400 | -0.0136 | -2.5 to 2.5 | Pass |
|       | 1732.5 | 27  | 0  | 50  | 3.70 | -17.500 | -0.0102 | -2.5 to 2.5 | Pass |
|       |        |     |    | 20  | 3.40 | -24.900 | -0.0144 | -2.5 to 2.5 | Pass |
|       |        |     |    |     | 3.70 | -11.600 | -0.0067 | -2.5 to 2.5 | Pass |
|       |        |     |    |     | 4.20 | -15.800 | -0.0091 | -2.5 to 2.5 | Pass |
|       |        |     |    | -30 | 3.70 | -13.200 | -0.0076 | -2.5 to 2.5 | Pass |
|       |        |     |    | -20 | 3.70 | -15.500 | -0.0089 | -2.5 to 2.5 | Pass |
|       |        |     |    | -10 | 3.70 | -9.100  | -0.0053 | -2.5 to 2.5 | Pass |
|       |        |     |    | 0   | 3.70 | -9.000  | -0.0052 | -2.5 to 2.5 | Pass |
|       |        |     |    | 10  | 3.70 | -19.100 | -0.0110 | -2.5 to 2.5 | Pass |
|       |        |     |    | 30  | 3.70 | -12.700 | -0.0073 | -2.5 to 2.5 | Pass |
|       | 1745   | 27  | 73 | 40  | 3.70 | -7.900  | -0.0046 | -2.5 to 2.5 | Pass |
|       |        |     |    | 50  | 3.70 | -11.800 | -0.0068 | -2.5 to 2.5 | Pass |
|       |        |     |    | 20  | 3.40 | 11.500  | 0.0066  | -2.5 to 2.5 | Pass |
|       |        |     |    |     | 3.70 | 9.200   | 0.0053  | -2.5 to 2.5 | Pass |
|       |        |     |    |     | 4.20 | 26.500  | 0.0152  | -2.5 to 2.5 | Pass |
|       |        |     |    | -30 | 3.70 | 22.500  | 0.0129  | -2.5 to 2.5 | Pass |
|       |        |     |    | -20 | 3.70 | 17.600  | 0.0101  | -2.5 to 2.5 | Pass |
|       |        |     |    | -10 | 3.70 | 10.100  | 0.0058  | -2.5 to 2.5 | Pass |
|       |        |     |    | 0   | 3.70 | 20.400  | 0.0117  | -2.5 to 2.5 | Pass |
|       |        |     |    | 10  | 3.70 | 16.400  | 0.0094  | -2.5 to 2.5 | Pass |
|       |        |     |    | 30  | 3.70 | 24.100  | 0.0138  | -2.5 to 2.5 | Pass |
|       |        |     |    | 40  | 3.70 | 20.500  | 0.0117  | -2.5 to 2.5 | Pass |
|       |        |     |    | 50  | 3.70 | 15.900  | 0.0091  | -2.5 to 2.5 | Pass |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 Band4\_OBW

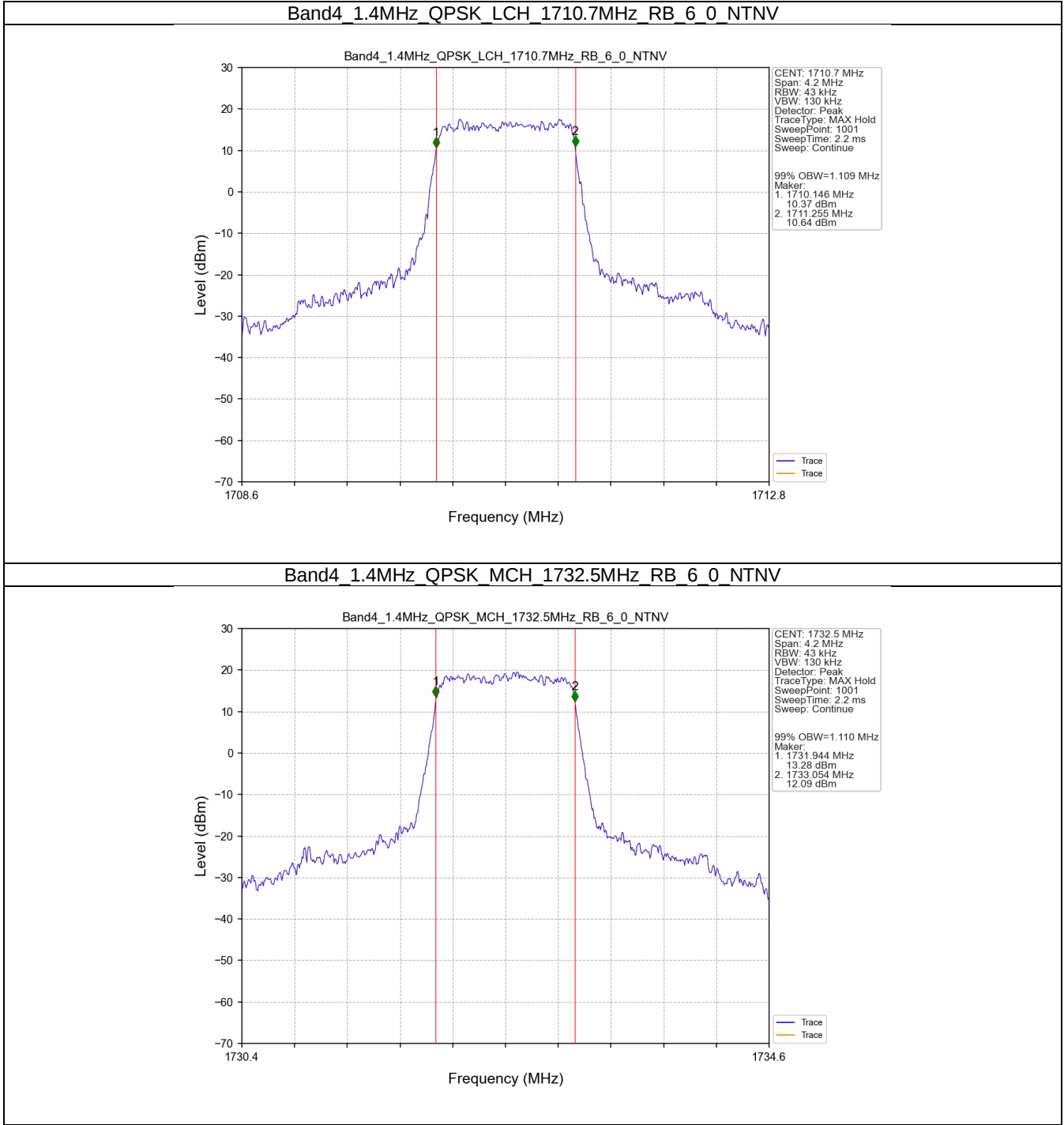
| Band: 4 / NTN   |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 1.4             | QPSK       | 1710.7          | 6             | 0      | 1.109                        | /     | Pass    |
|                 |            | 1732.5          | 6             | 0      | 1.110                        | /     | Pass    |
|                 |            | 1754.3          | 6             | 0      | 1.112                        | /     | Pass    |
|                 | 16QAM      | 1710.7          | 6             | 0      | 1.117                        | /     | Pass    |
|                 |            | 1732.5          | 6             | 0      | 1.111                        | /     | Pass    |
|                 |            | 1754.3          | 6             | 0      | 1.113                        | /     | Pass    |
| 3               | QPSK       | 1711.5          | 15            | 0      | 2.729                        | /     | Pass    |
|                 |            | 1732.5          | 15            | 0      | 2.721                        | /     | Pass    |
|                 |            | 1753.5          | 15            | 0      | 2.720                        | /     | Pass    |
|                 | 16QAM      | 1711.5          | 15            | 0      | 2.722                        | /     | Pass    |
|                 |            | 1732.5          | 15            | 0      | 2.725                        | /     | Pass    |
|                 |            | 1753.5          | 15            | 0      | 2.719                        | /     | Pass    |
| 5               | QPSK       | 1712.5          | 25            | 0      | 4.540                        | /     | Pass    |
|                 |            | 1732.5          | 25            | 0      | 4.529                        | /     | Pass    |
|                 |            | 1752.5          | 25            | 0      | 4.530                        | /     | Pass    |
|                 | 16QAM      | 1712.5          | 25            | 0      | 4.510                        | /     | Pass    |
|                 |            | 1732.5          | 25            | 0      | 4.531                        | /     | Pass    |
|                 |            | 1752.5          | 25            | 0      | 4.532                        | /     | Pass    |
| 10              | QPSK       | 1715            | 50            | 0      | 9.017                        | /     | Pass    |
|                 |            | 1732.5          | 50            | 0      | 9.054                        | /     | Pass    |
|                 |            | 1750            | 50            | 0      | 9.065                        | /     | Pass    |
|                 | 16QAM      | 1715            | 27            | 0      | 5.025                        | /     | Pass    |
|                 |            | 1732.5          | 27            | 0      | 5.027                        | /     | Pass    |
|                 |            | 1750            | 27            | 23     | 5.026                        | /     | Pass    |
| 15              | QPSK       | 1717.5          | 75            | 0      | 13.517                       | /     | Pass    |
|                 |            | 1732.5          | 75            | 0      | 13.566                       | /     | Pass    |
|                 |            | 1747.5          | 75            | 0      | 13.566                       | /     | Pass    |
|                 | 16QAM      | 1717.5          | 27            | 0      | 5.234                        | /     | Pass    |
|                 |            | 1732.5          | 27            | 0      | 5.215                        | /     | Pass    |
|                 |            | 1747.5          | 27            | 48     | 5.257                        | /     | Pass    |
| 20              | QPSK       | 1720            | 100           | 0      | 18.008                       | /     | Pass    |
|                 |            | 1732.5          | 100           | 0      | 18.094                       | /     | Pass    |
|                 |            | 1745            | 100           | 0      | 18.095                       | /     | Pass    |
|                 | 16QAM      | 1720            | 27            | 0      | 5.444                        | /     | Pass    |
|                 |            | 1732.5          | 27            | 0      | 5.468                        | /     | Pass    |
|                 |            | 1745            | 27            | 73     | 5.411                        | /     | Pass    |

### 3.1.2 Band4\_XDB

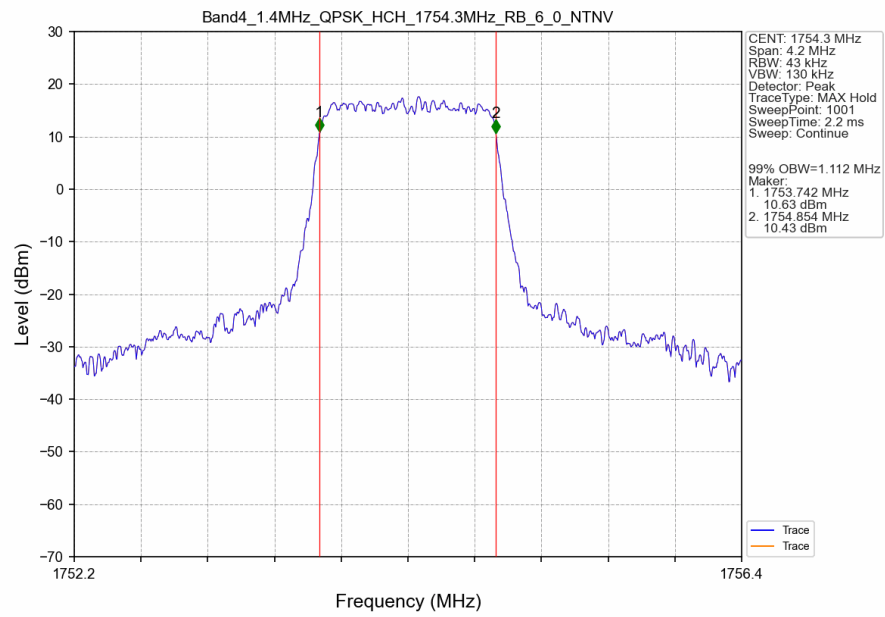
| Band: 4 / NTNV  |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 1.4             | QPSK       | 1710.7          | 6             | 0      | 1.293                | /     | Pass    |
|                 |            | 1732.5          | 6             | 0      | 1.308                | /     | Pass    |
|                 |            | 1754.3          | 6             | 0      | 1.296                | /     | Pass    |
|                 | 16QAM      | 1710.7          | 6             | 0      | 1.294                | /     | Pass    |
|                 |            | 1732.5          | 6             | 0      | 1.282                | /     | Pass    |
|                 |            | 1754.3          | 6             | 0      | 1.296                | /     | Pass    |
| 3               | QPSK       | 1711.5          | 15            | 0      | 3.010                | /     | Pass    |
|                 |            | 1732.5          | 15            | 0      | 3.006                | /     | Pass    |
|                 |            | 1753.5          | 15            | 0      | 3.006                | /     | Pass    |
|                 | 16QAM      | 1711.5          | 15            | 0      | 3.006                | /     | Pass    |
|                 |            | 1732.5          | 15            | 0      | 3.007                | /     | Pass    |
|                 |            | 1753.5          | 15            | 0      | 3.009                | /     | Pass    |
| 5               | QPSK       | 1712.5          | 25            | 0      | 5.012                | /     | Pass    |
|                 |            | 1732.5          | 25            | 0      | 5.046                | /     | Pass    |
|                 |            | 1752.5          | 25            | 0      | 5.043                | /     | Pass    |
|                 | 16QAM      | 1712.5          | 25            | 0      | 5.007                | /     | Pass    |
|                 |            | 1732.5          | 25            | 0      | 5.006                | /     | Pass    |
|                 |            | 1752.5          | 25            | 0      | 5.024                | /     | Pass    |
| 10              | QPSK       | 1715            | 50            | 0      | 9.826                | /     | Pass    |
|                 |            | 1732.5          | 50            | 0      | 9.844                | /     | Pass    |
|                 |            | 1750            | 50            | 0      | 9.918                | /     | Pass    |
|                 | 16QAM      | 1715            | 27            | 0      | 5.780                | /     | Pass    |
|                 |            | 1732.5          | 27            | 0      | 5.777                | /     | Pass    |
|                 |            | 1750            | 27            | 23     | 5.829                | /     | Pass    |
| 15              | QPSK       | 1717.5          | 75            | 0      | 14.688               | /     | Pass    |
|                 |            | 1732.5          | 75            | 0      | 14.800               | /     | Pass    |
|                 |            | 1747.5          | 75            | 0      | 14.868               | /     | Pass    |
|                 | 16QAM      | 1717.5          | 27            | 0      | 6.158                | /     | Pass    |
|                 |            | 1732.5          | 27            | 0      | 6.141                | /     | Pass    |
|                 |            | 1747.5          | 27            | 48     | 6.185                | /     | Pass    |
| 20              | QPSK       | 1720            | 100           | 0      | 19.406               | /     | Pass    |
|                 |            | 1732.5          | 100           | 0      | 19.518               | /     | Pass    |
|                 |            | 1745            | 100           | 0      | 19.484               | /     | Pass    |
|                 | 16QAM      | 1720            | 27            | 0      | 6.539                | /     | Pass    |
|                 |            | 1732.5          | 27            | 0      | 6.448                | /     | Pass    |
|                 |            | 1745            | 27            | 73     | 6.443                | /     | Pass    |

3.2 Test Graph

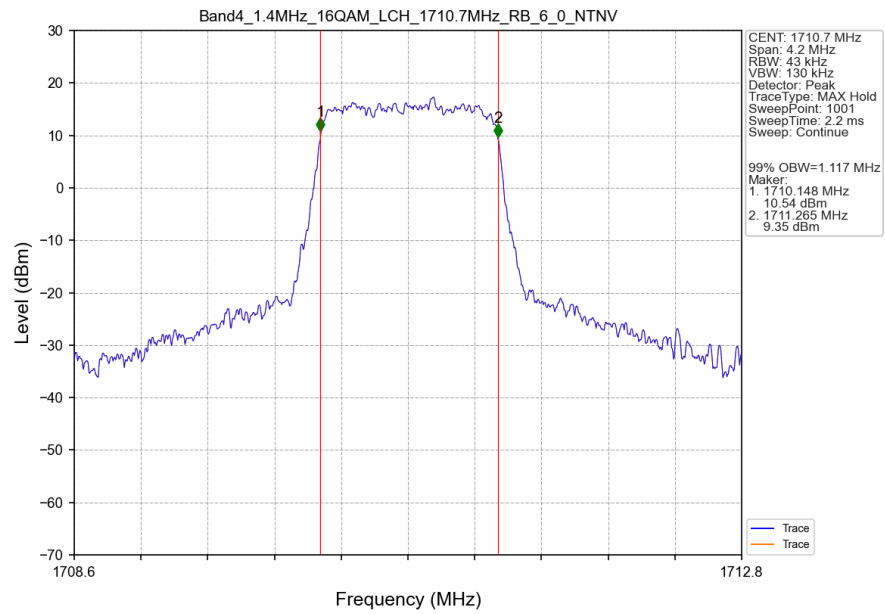
3.2.1 Band4\_OBW



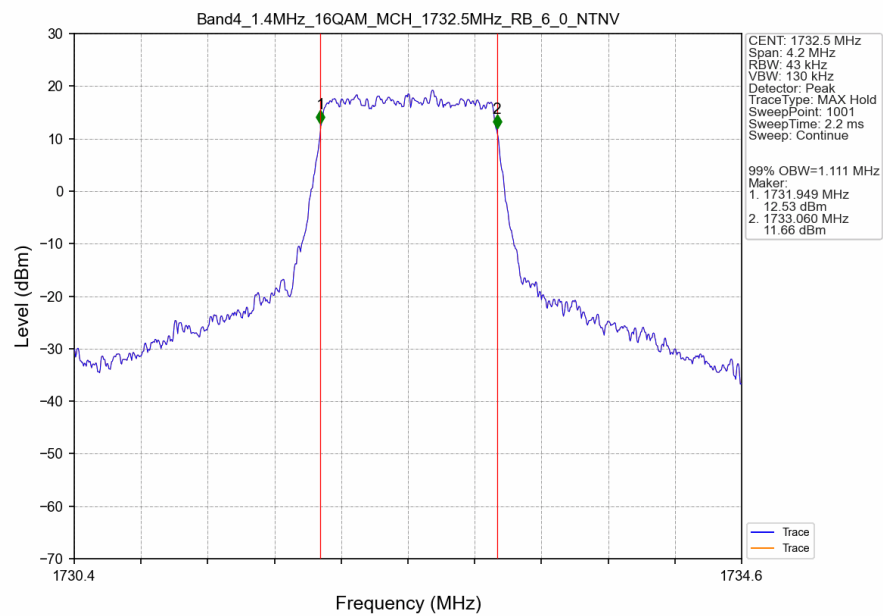
# Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTV



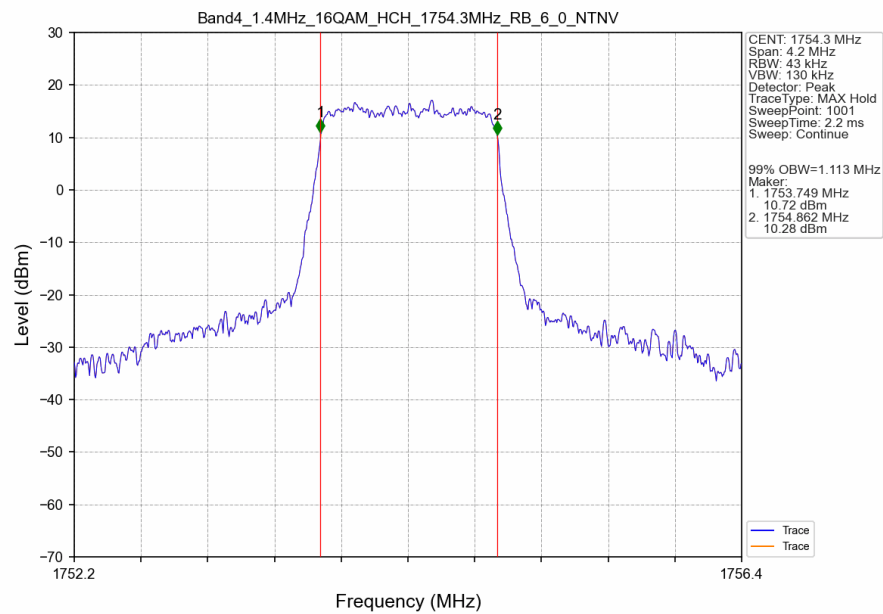
# Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTV



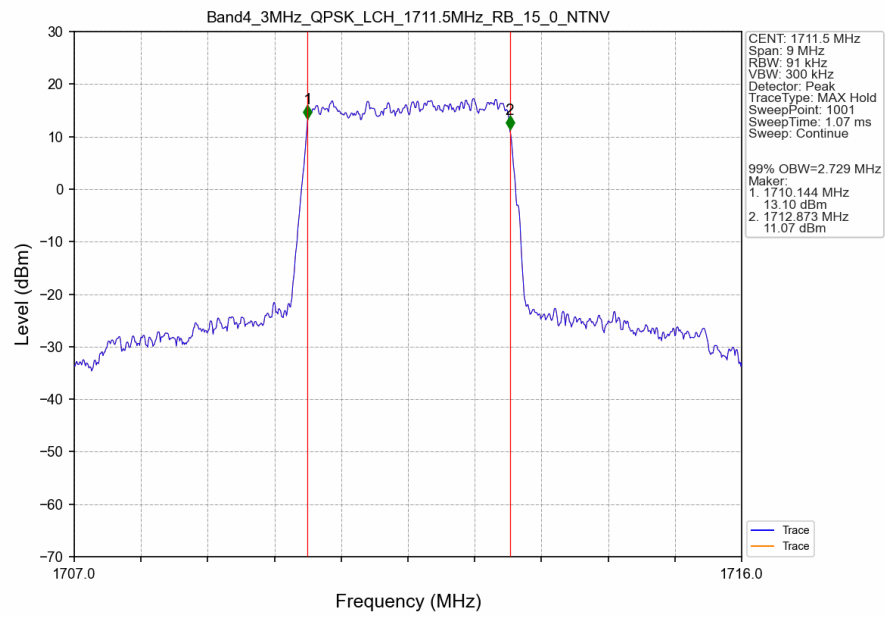
# Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



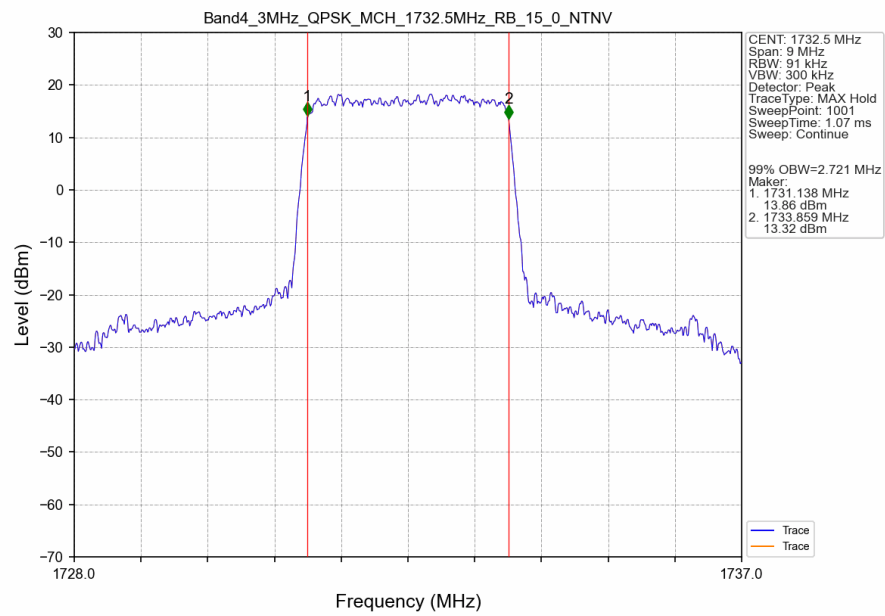
# Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV



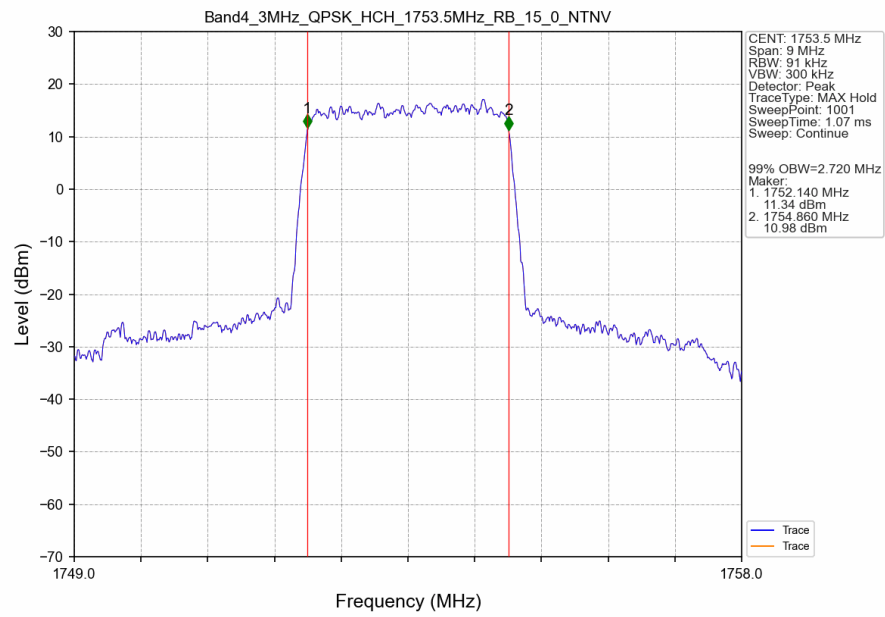
# Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTV



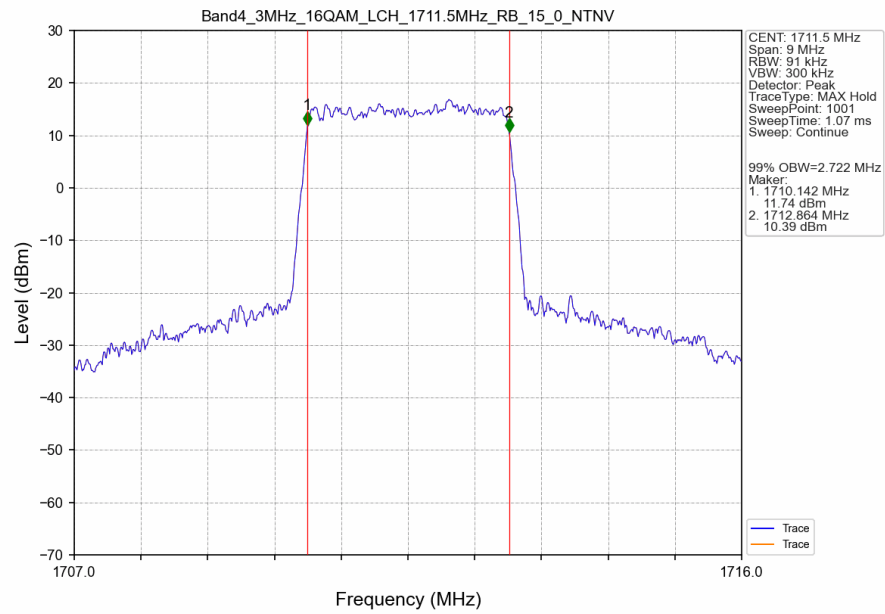
# Band4 3MHz QPSK MCH 1732.5MHz RB 15 0 NTV



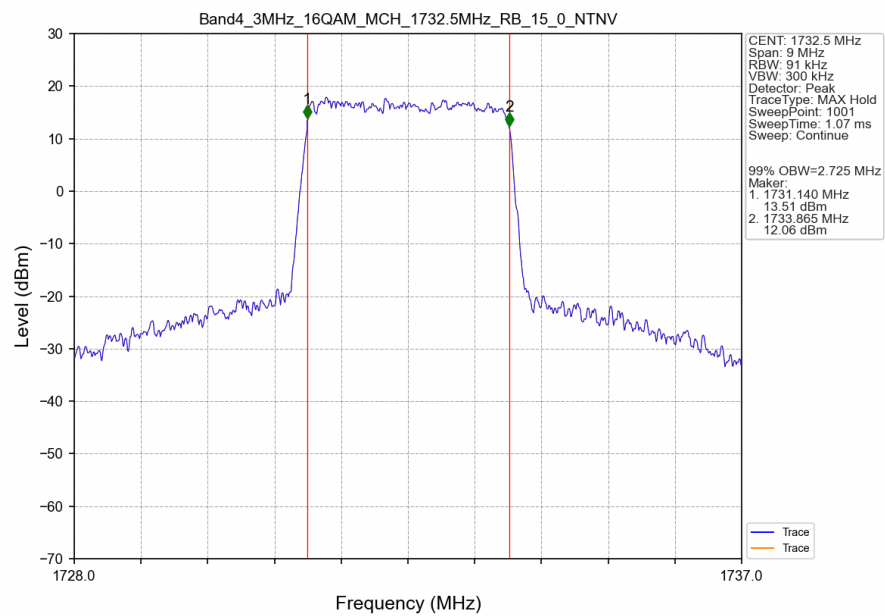
# Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTNV



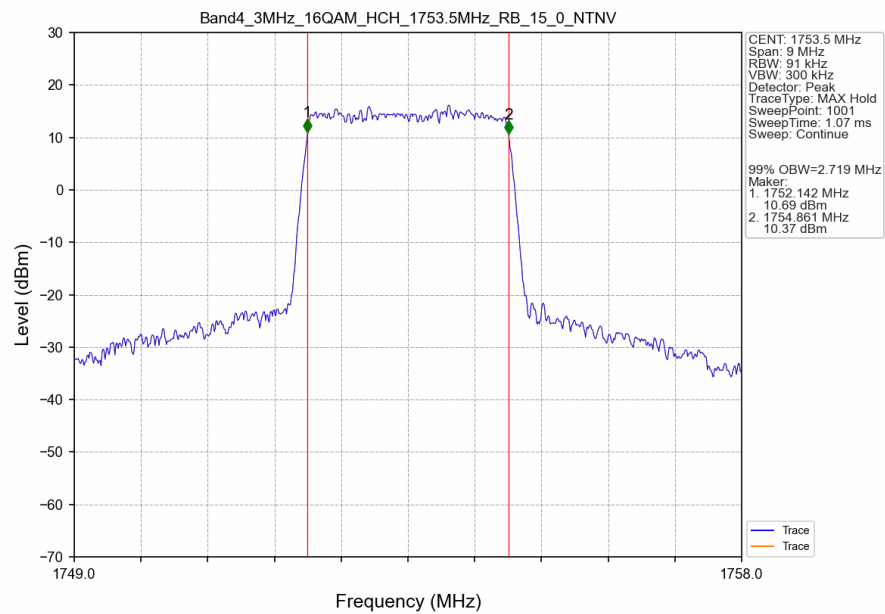
# Band4 3MHz 16QAM LCH 1711.5MHz RB 15 0 NTNV



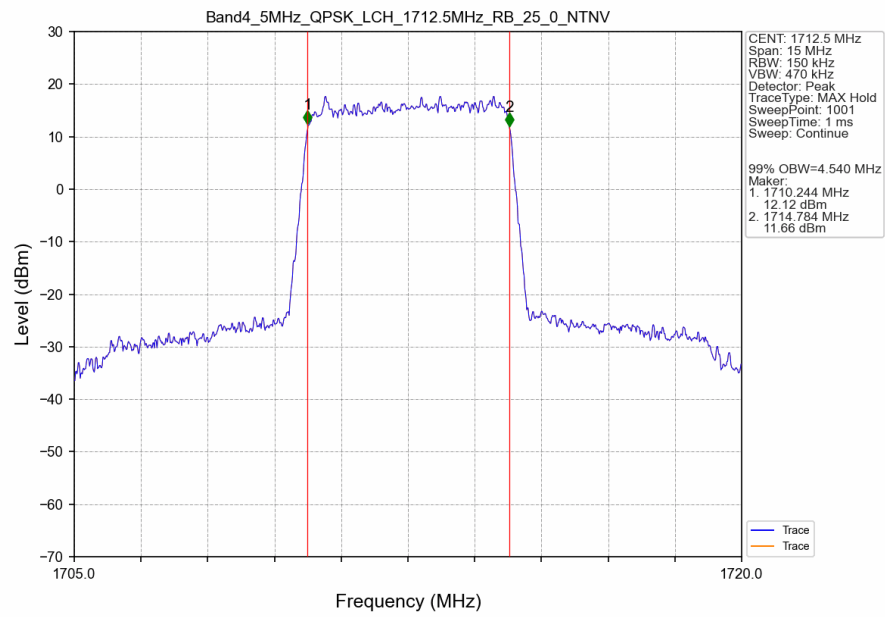
# Band4 3MHz 16QAM MCH 1732.5MHz RB 15 0 NTNV



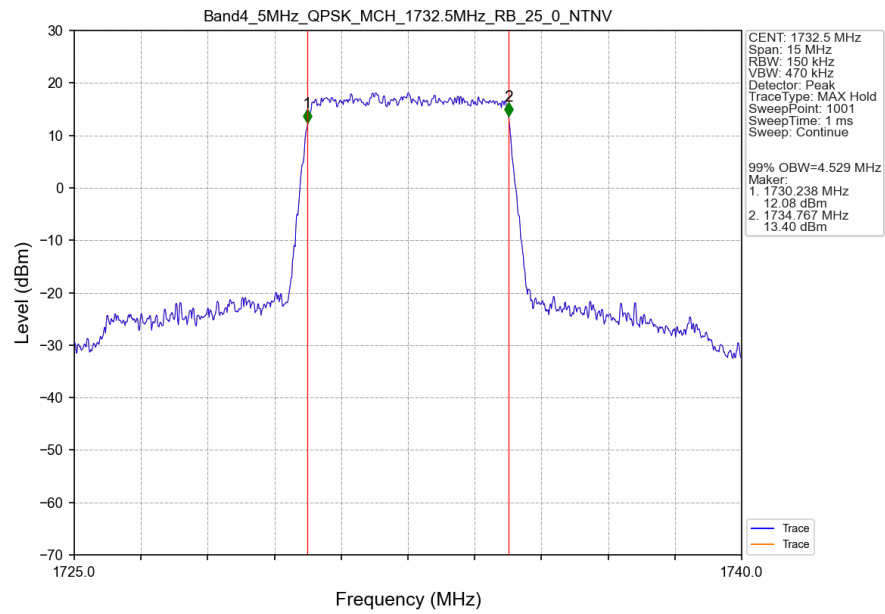
# Band4 3MHz 16QAM HCH 1753.5MHz RB 15 0 NTNV



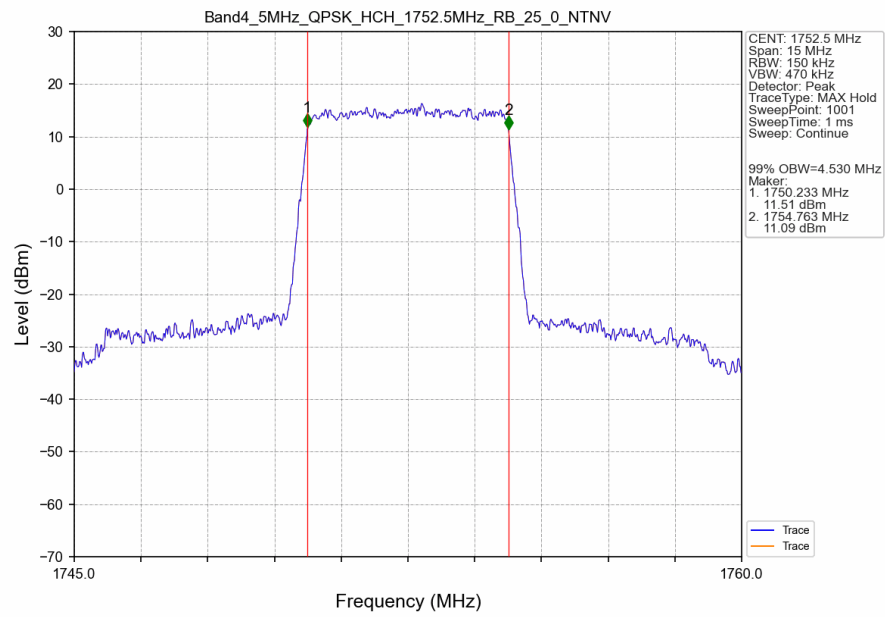
# Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTNV



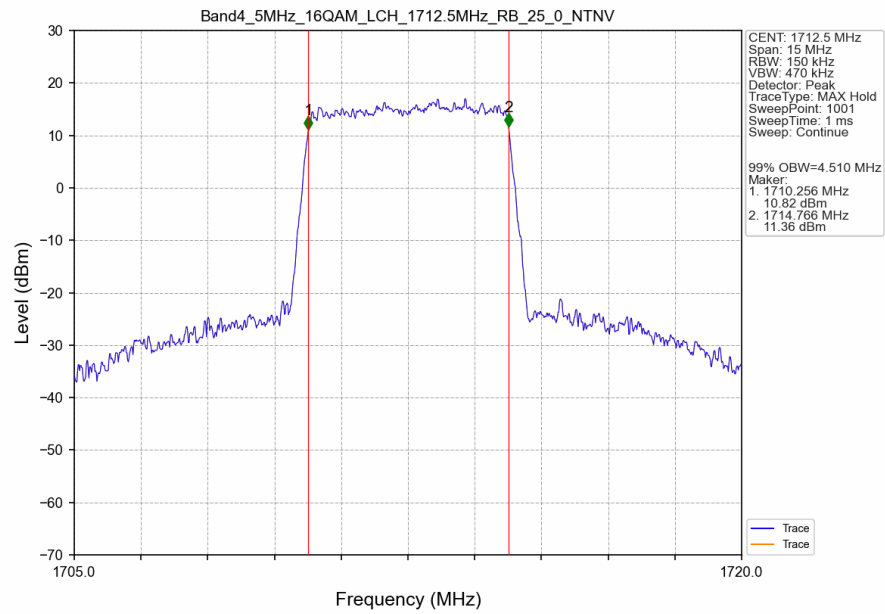
# Band4 5MHz QPSK MCH 1732.5MHz RB 25 0 NTNV



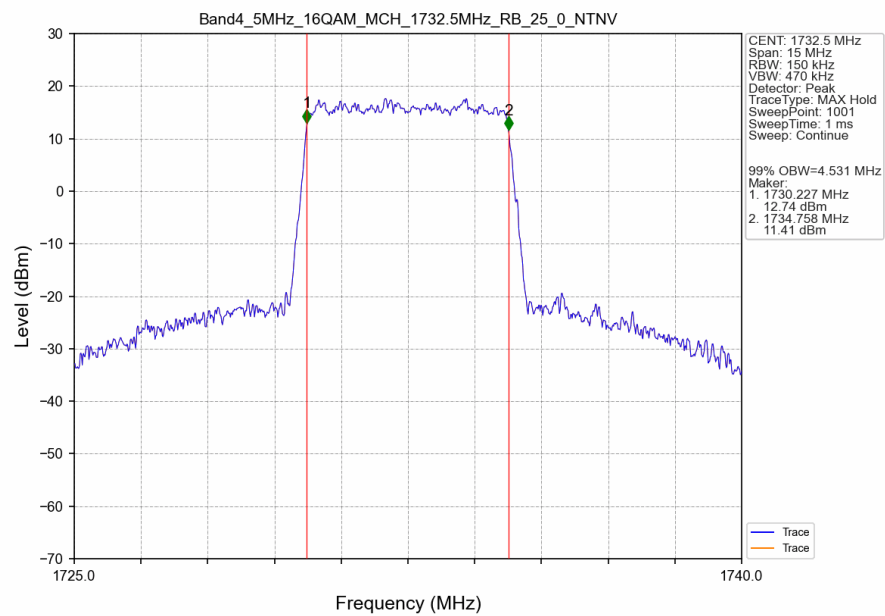
### Band4 5MHz QPSK HCH 1752.5MHz RB 25 0 NTN



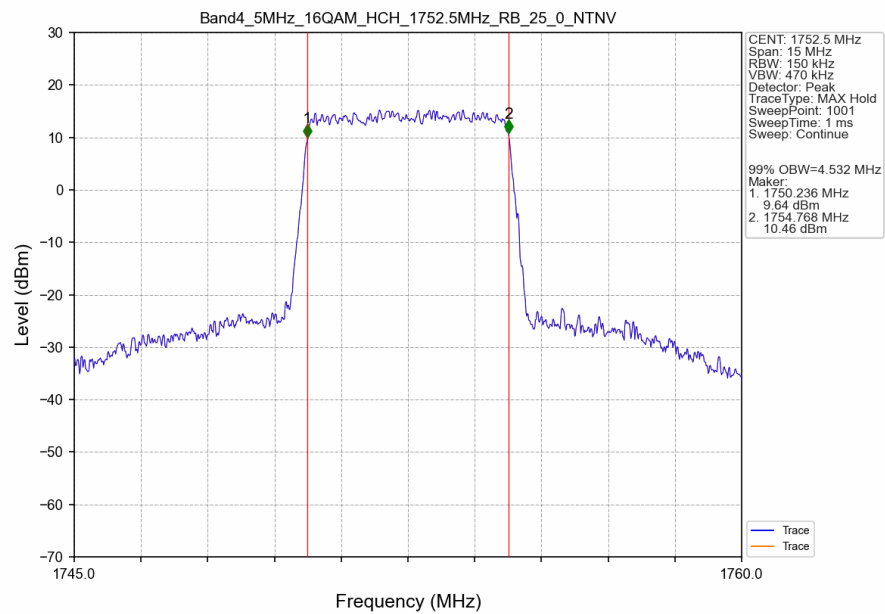
### Band4 5MHz 16QAM LCH 1712.5MHz RB 25 0 NTN



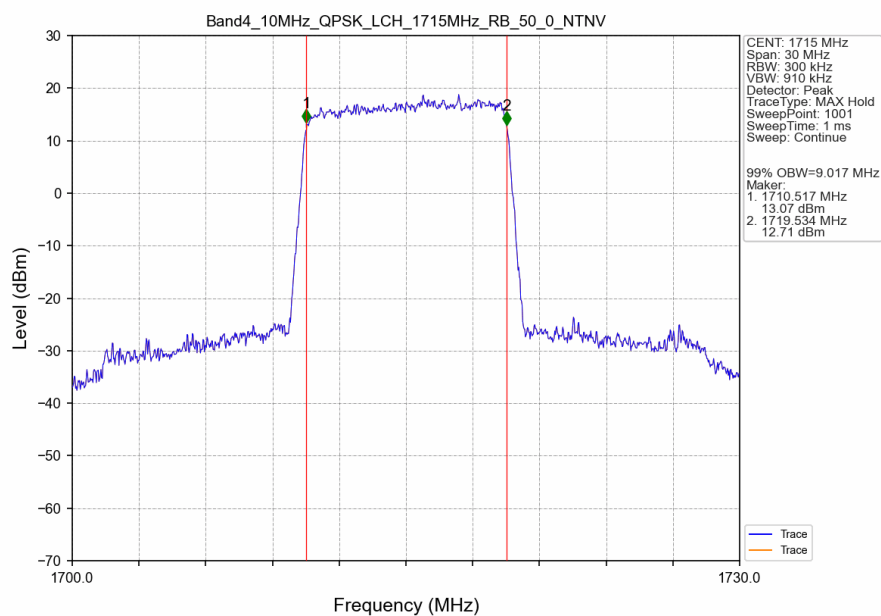
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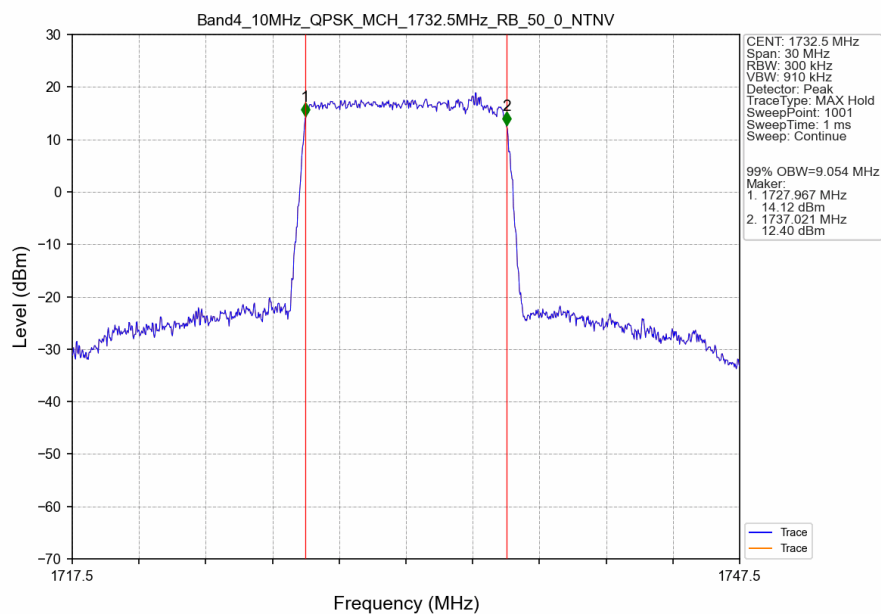
# Band4 5MHz 16QAM HCH 1752.5MHz RB 25 0 NTNV



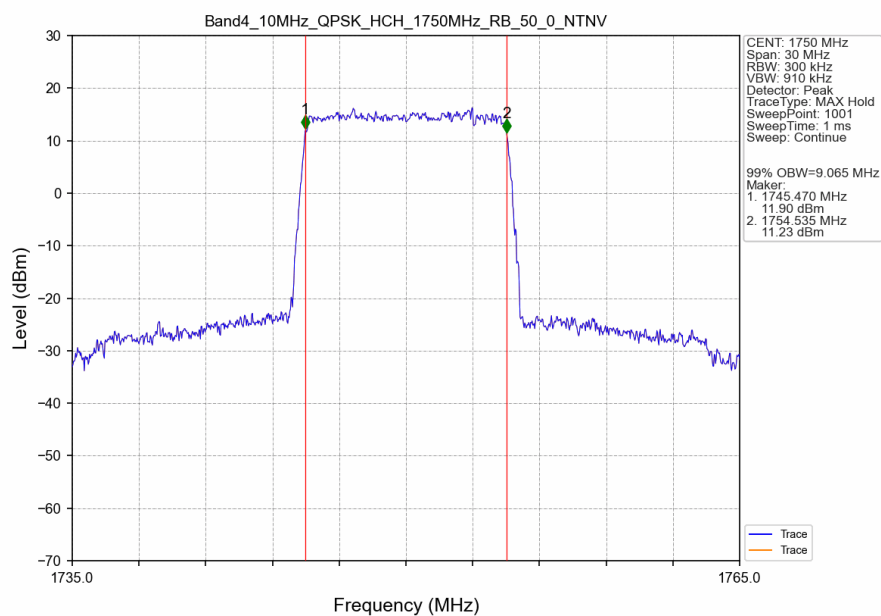
# Band4\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_50\_0\_NTNV



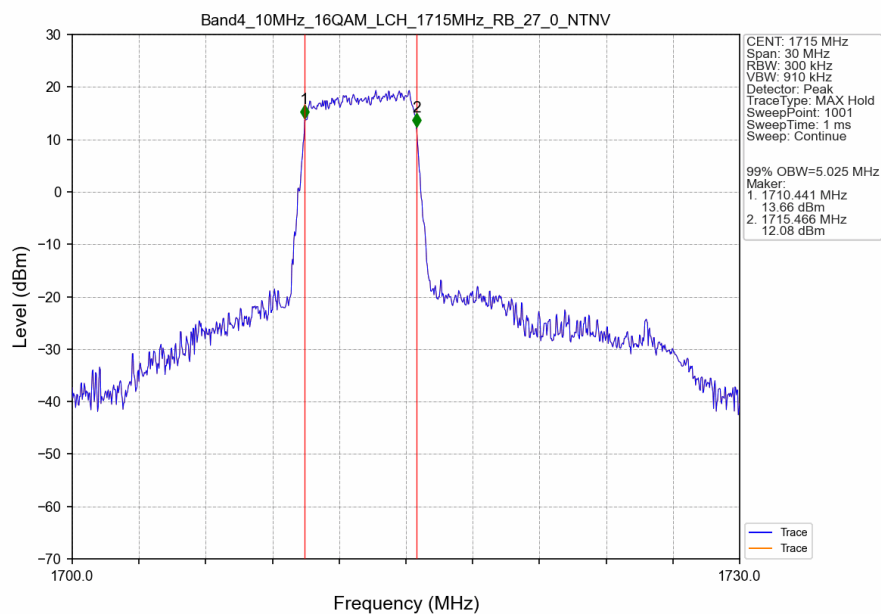
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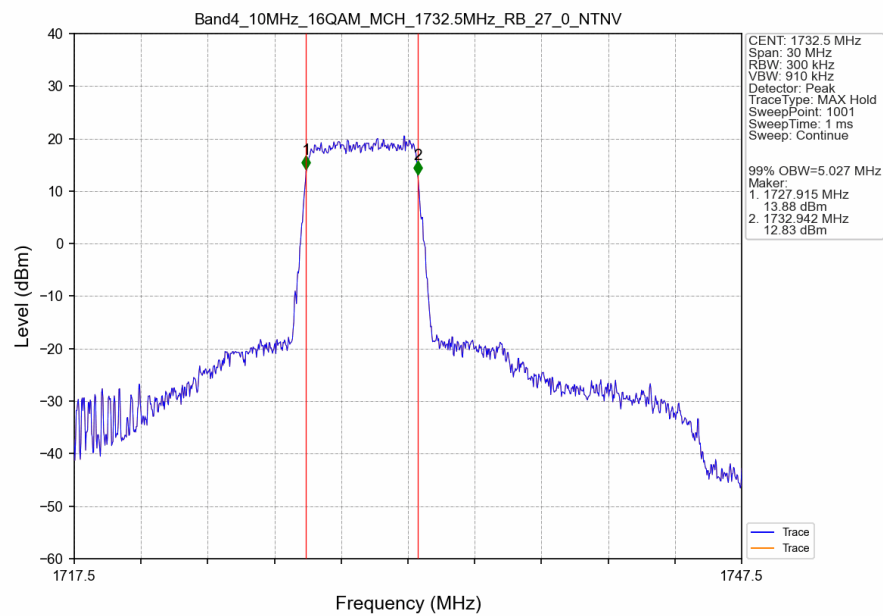
# Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTNV



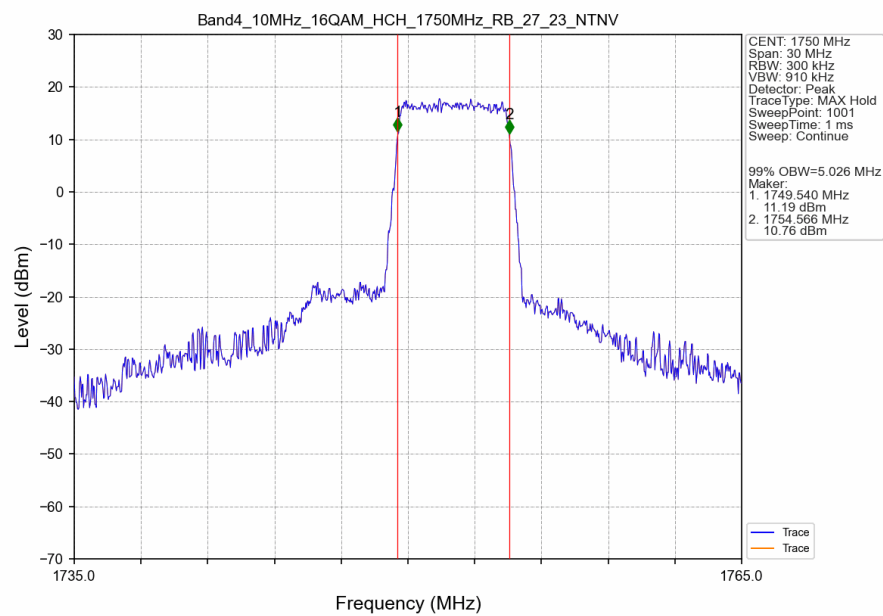
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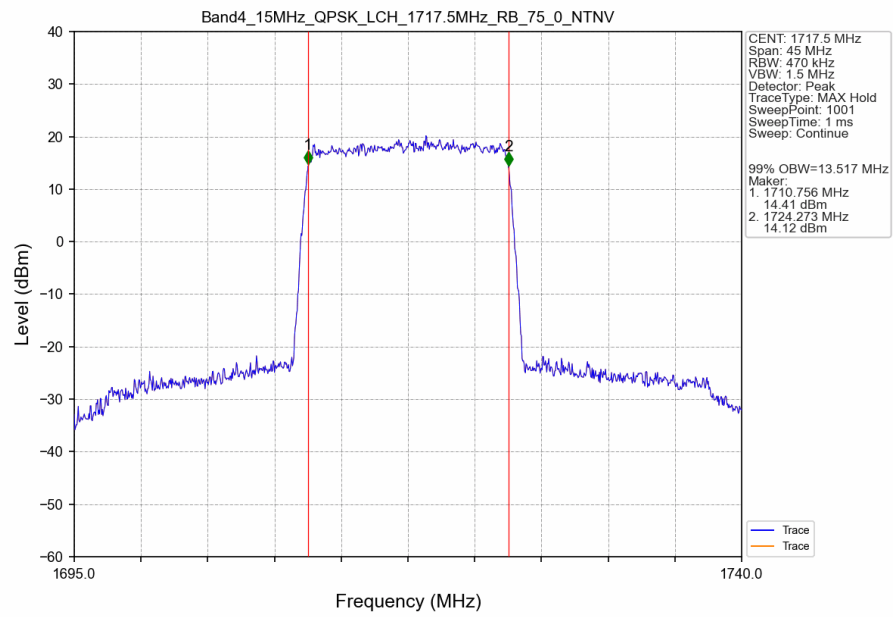
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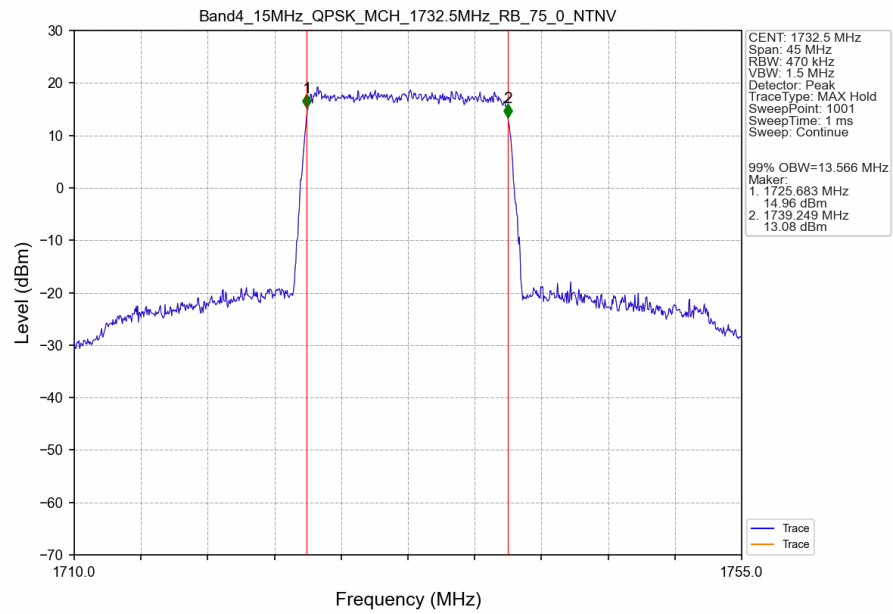
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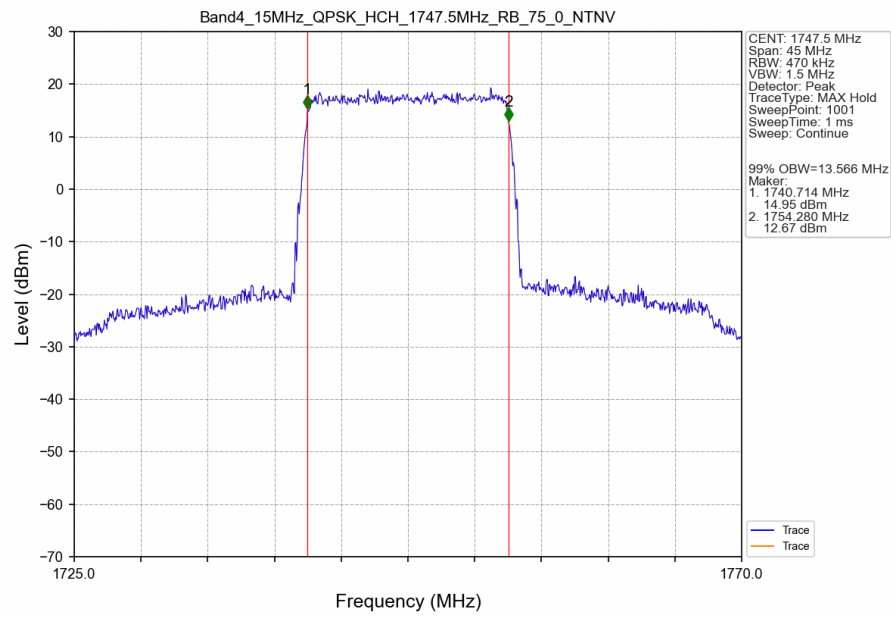
# Band4\_15MHz\_QPSK\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV



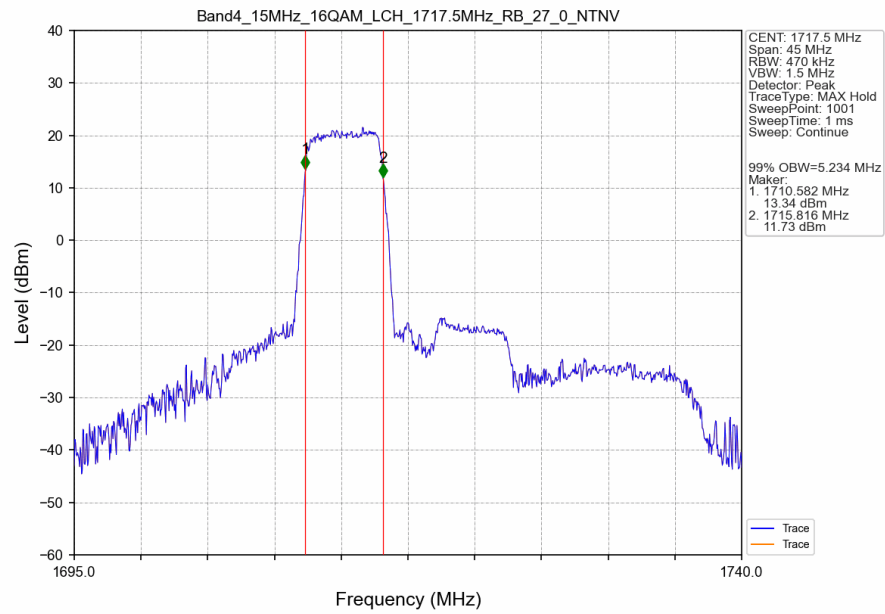
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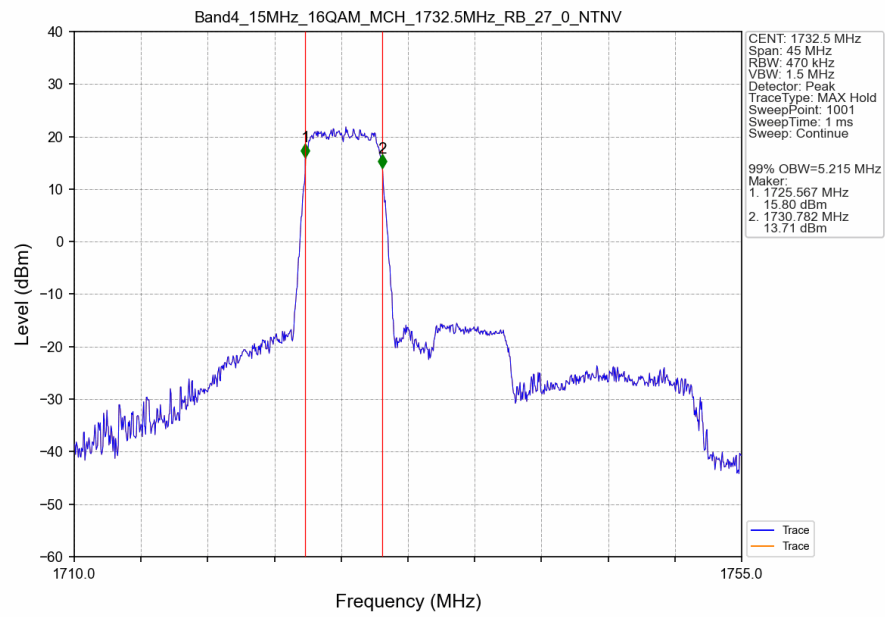
# Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



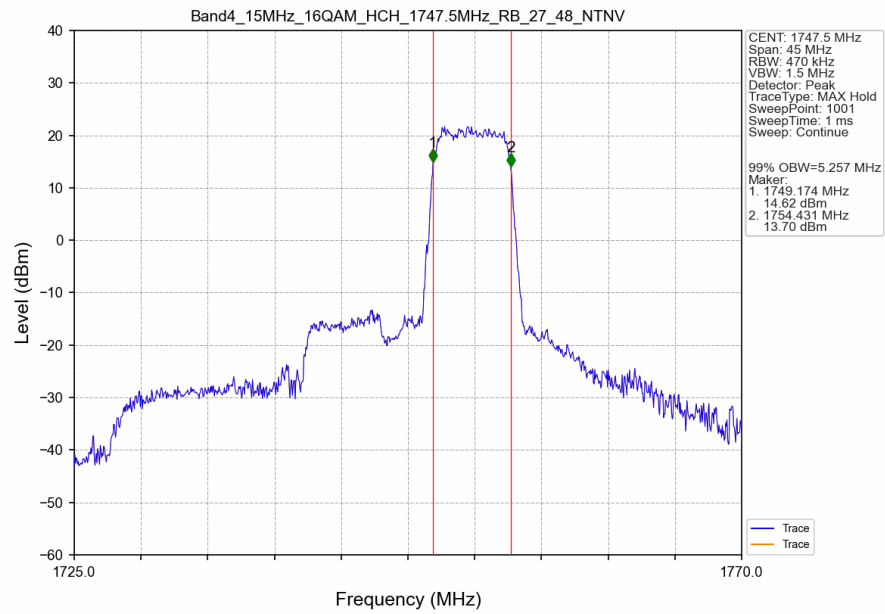
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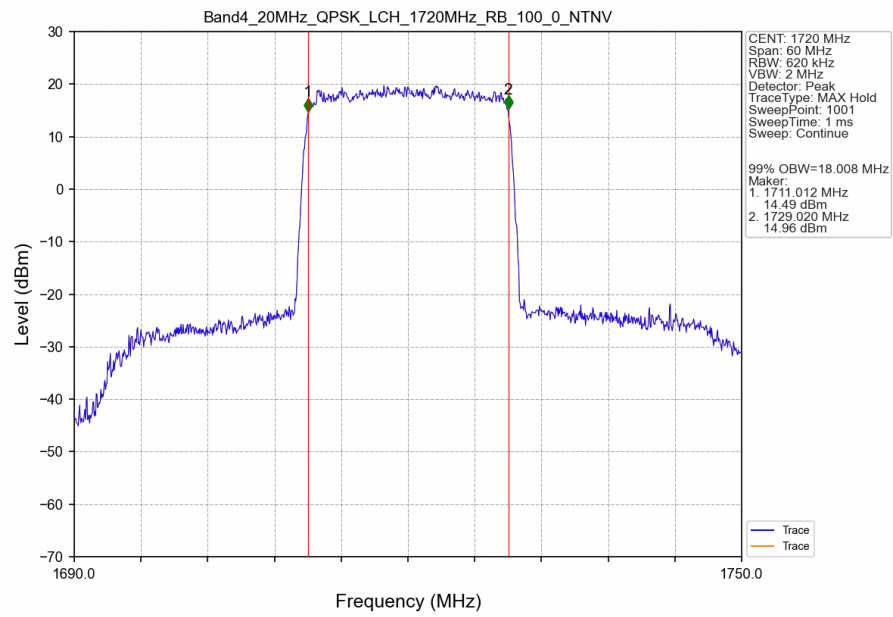
# Band4 15MHz 16QAM MCH 1732.5MHz RB 27 0 NTV



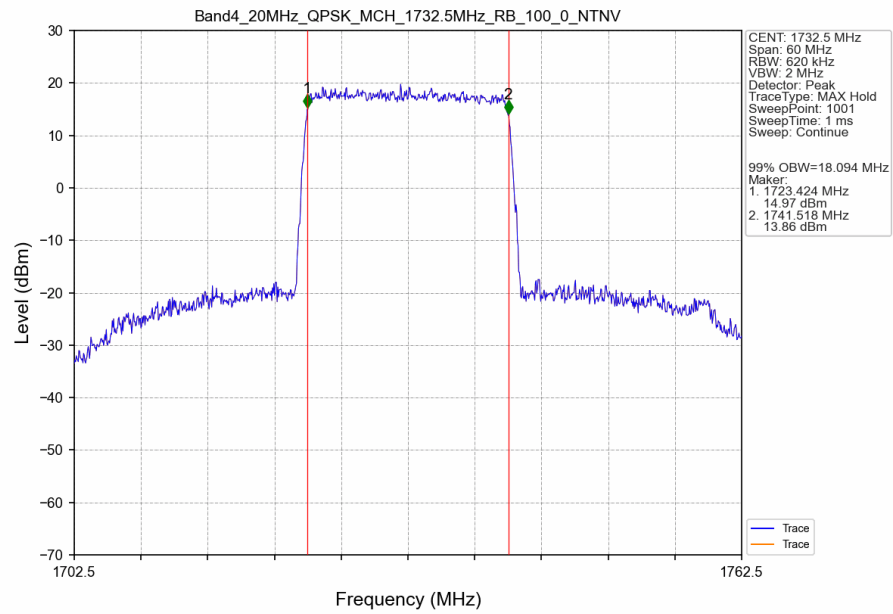
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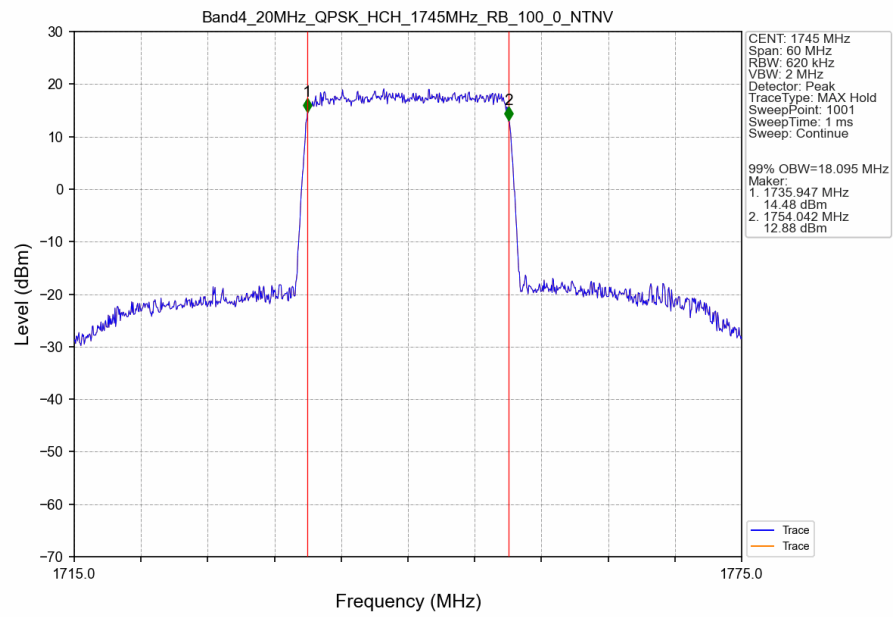
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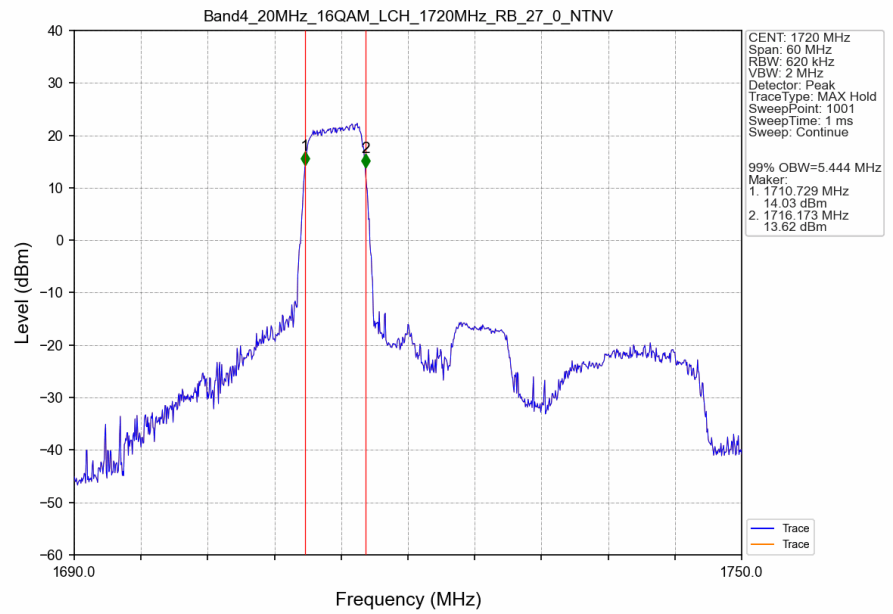
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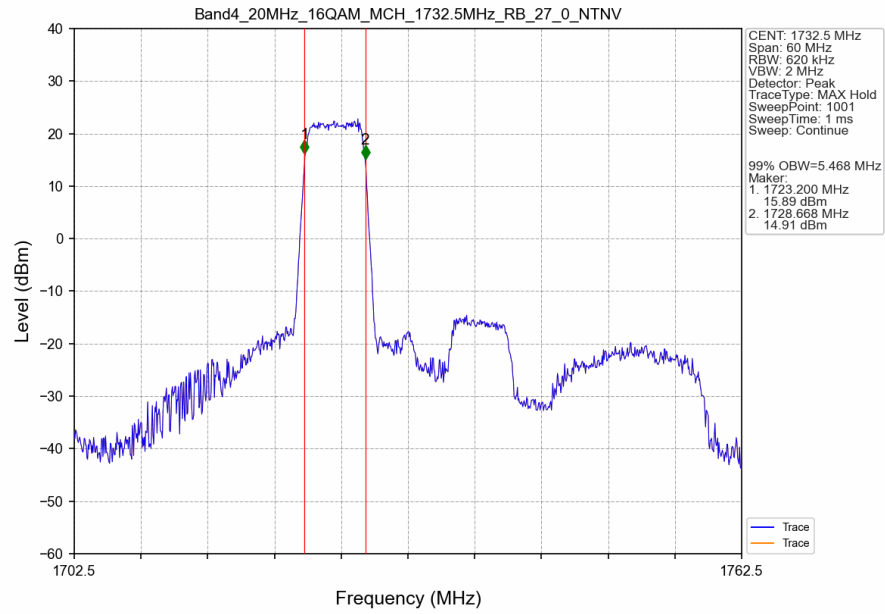
# Band4 20MHz QPSK HCH 1745MHz RB 100 0 NTNV



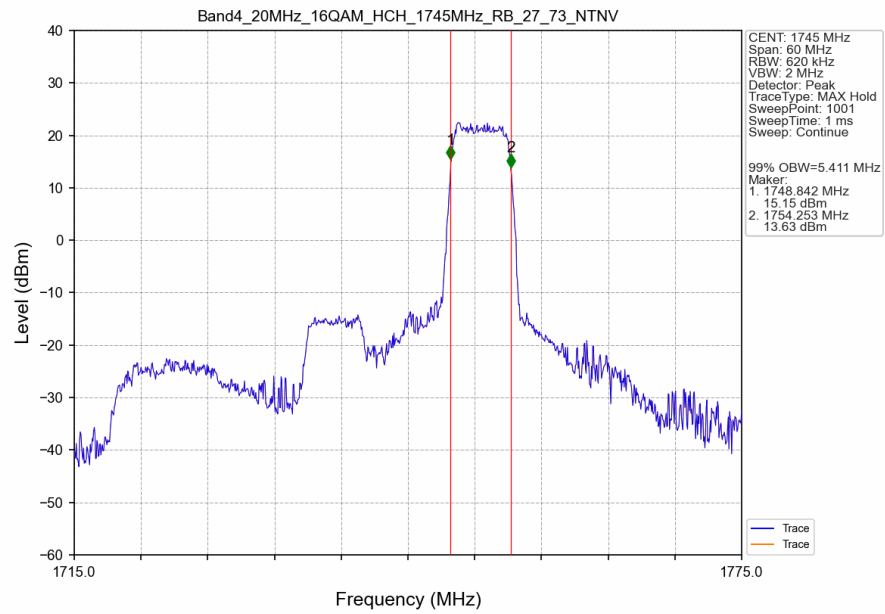
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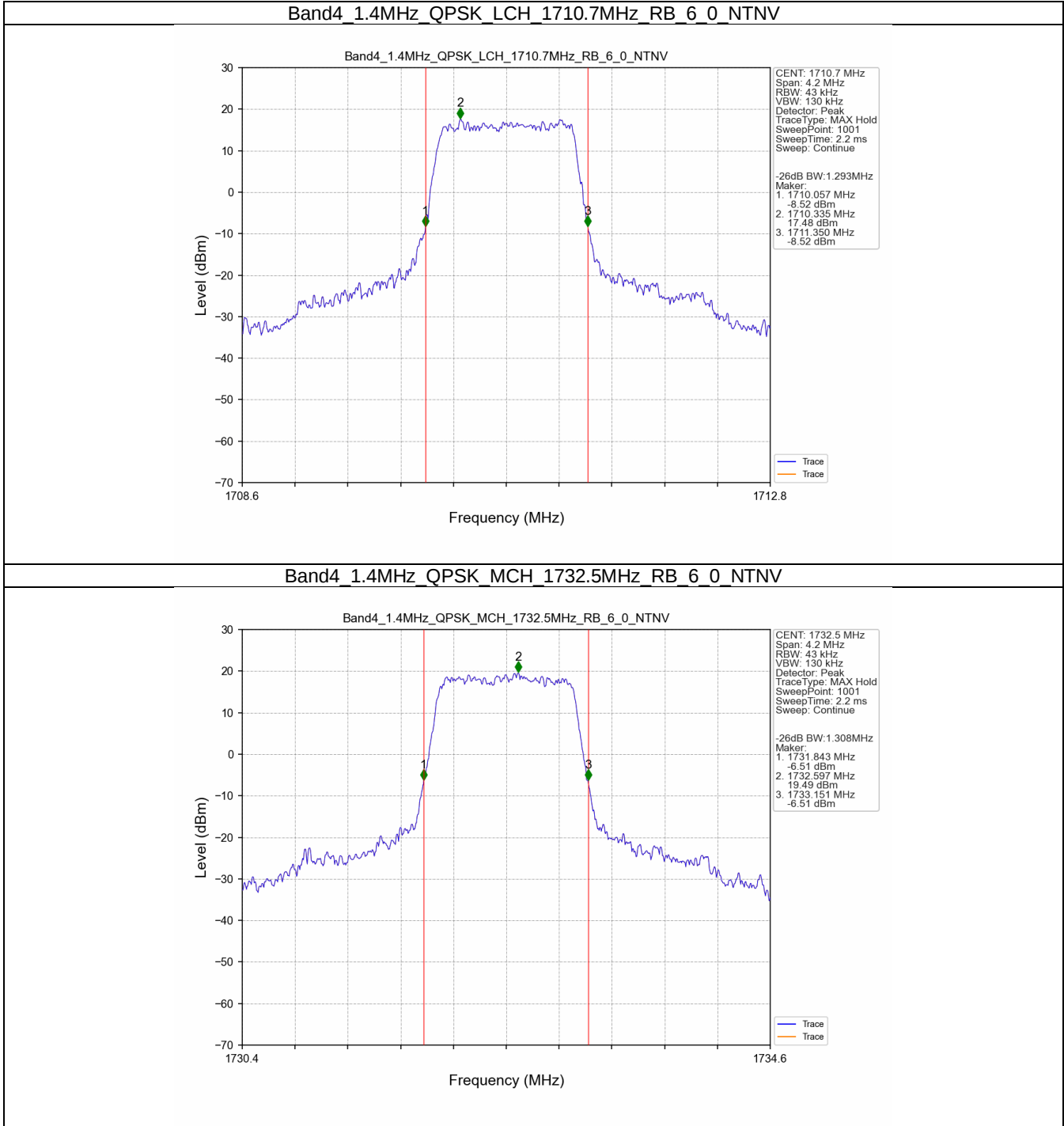
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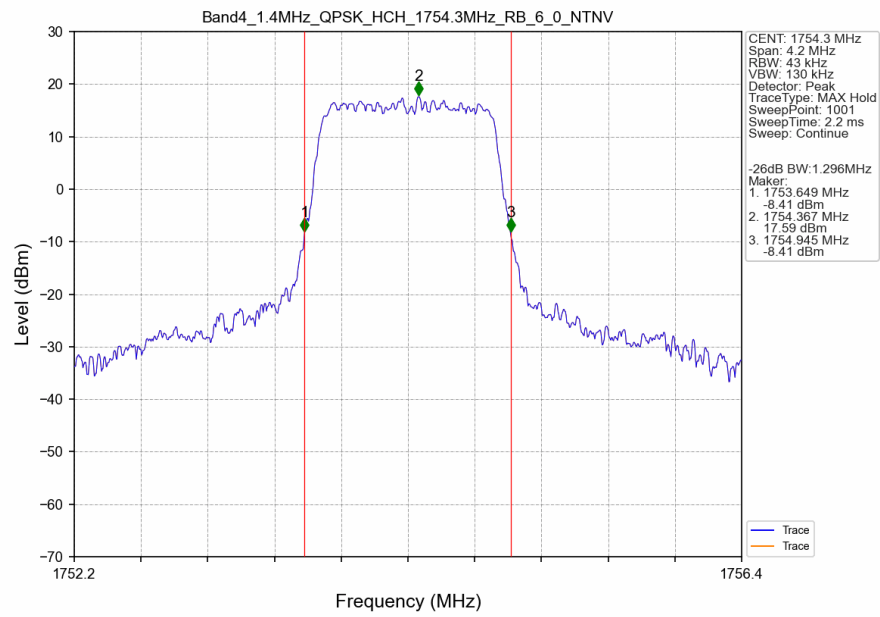
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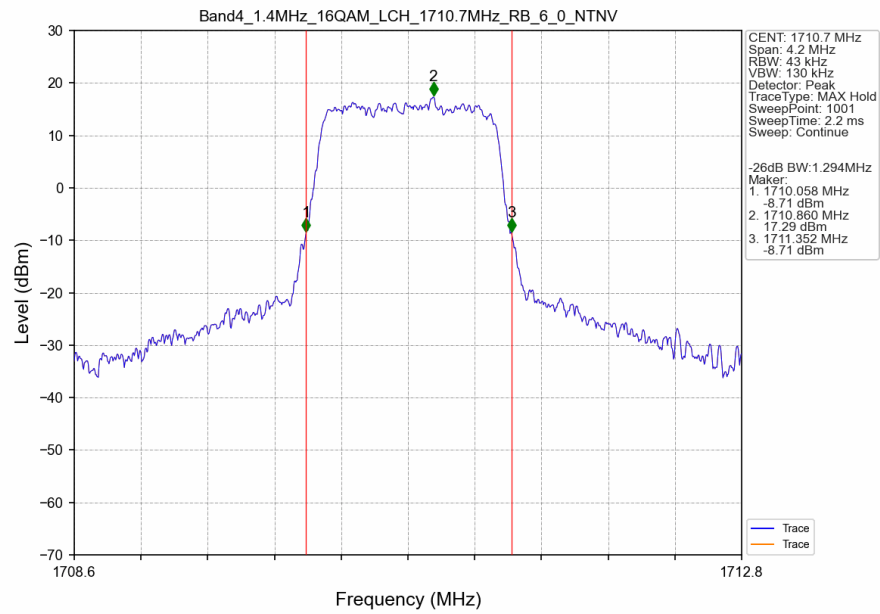
3.2.2 Band4\_XDB



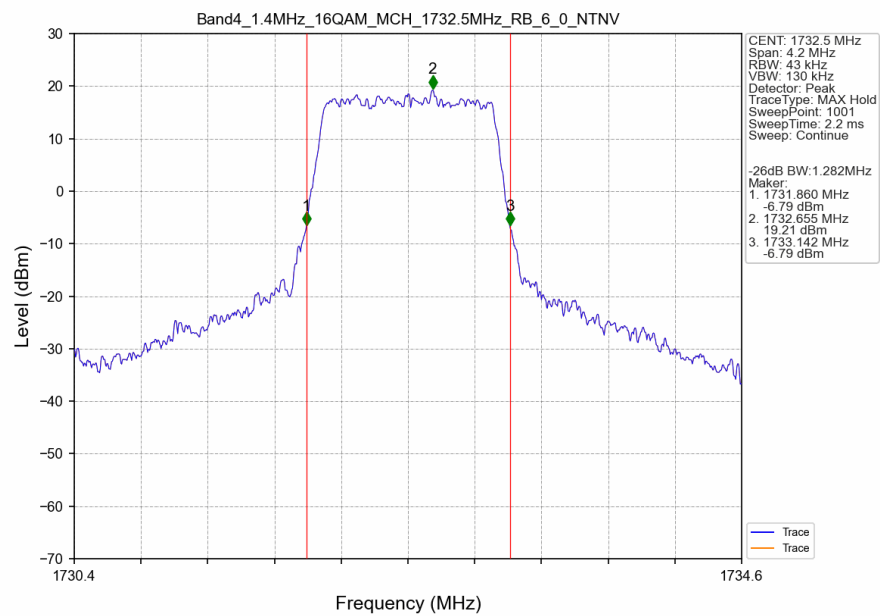
# Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



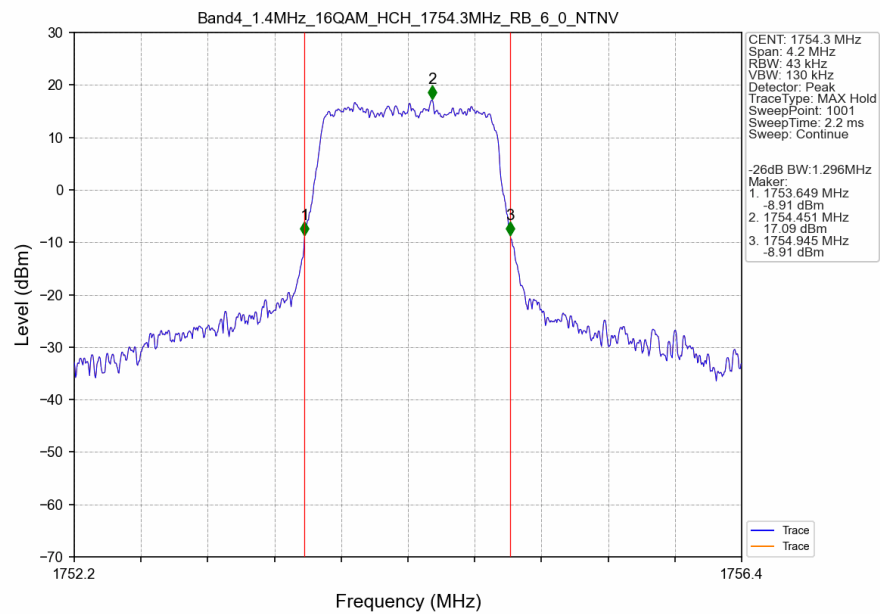
# Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTNV



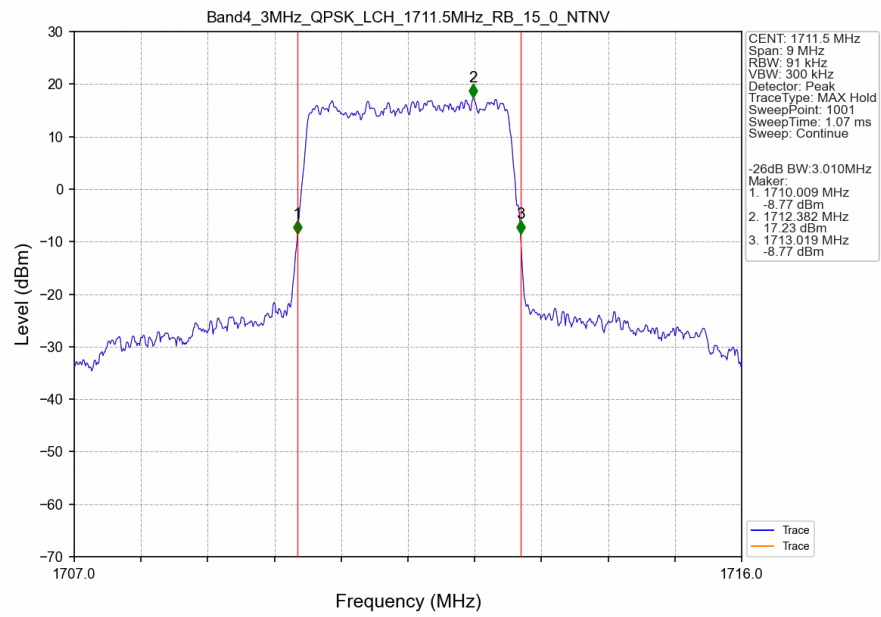
# Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



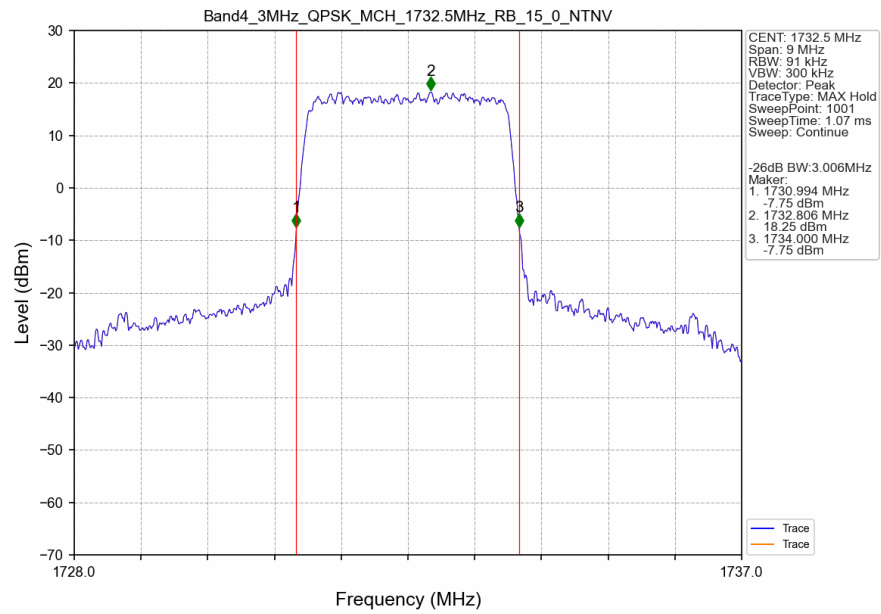
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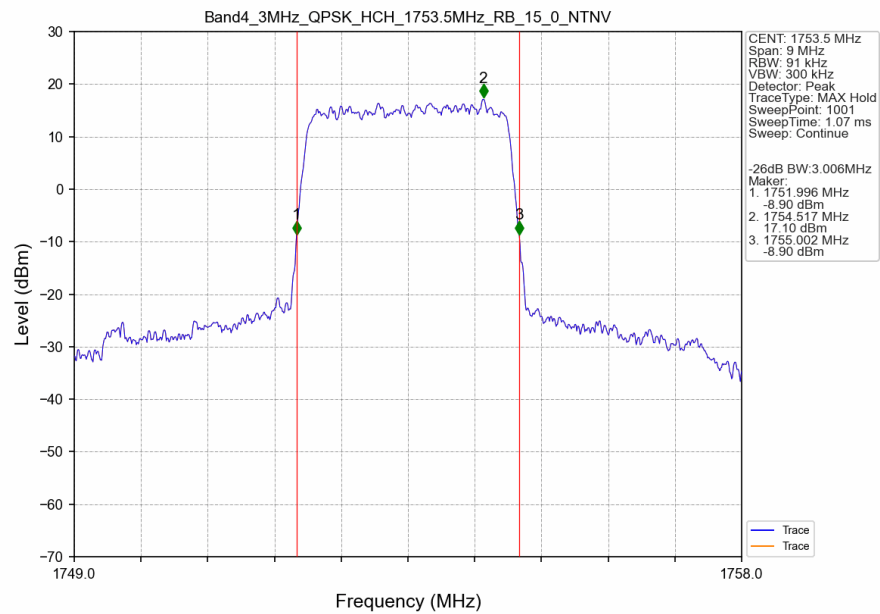
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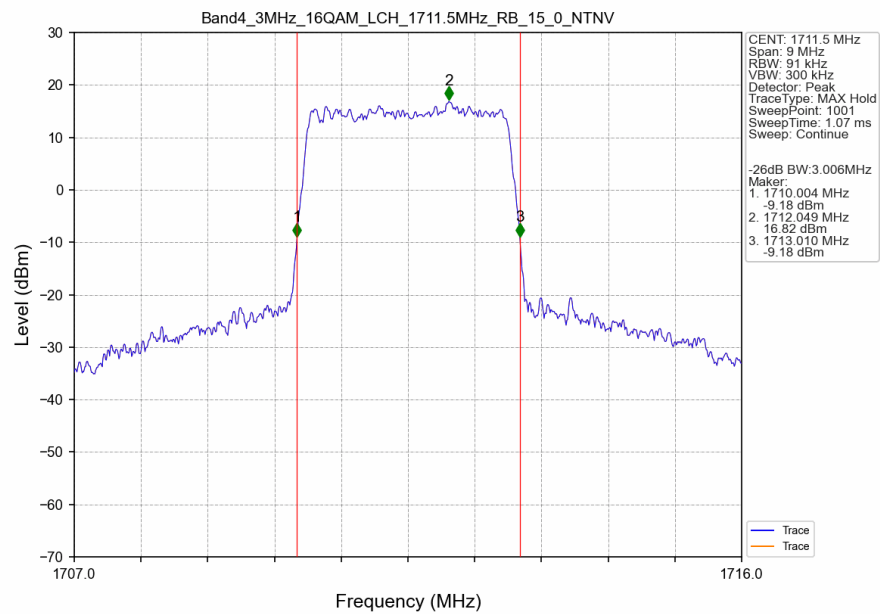
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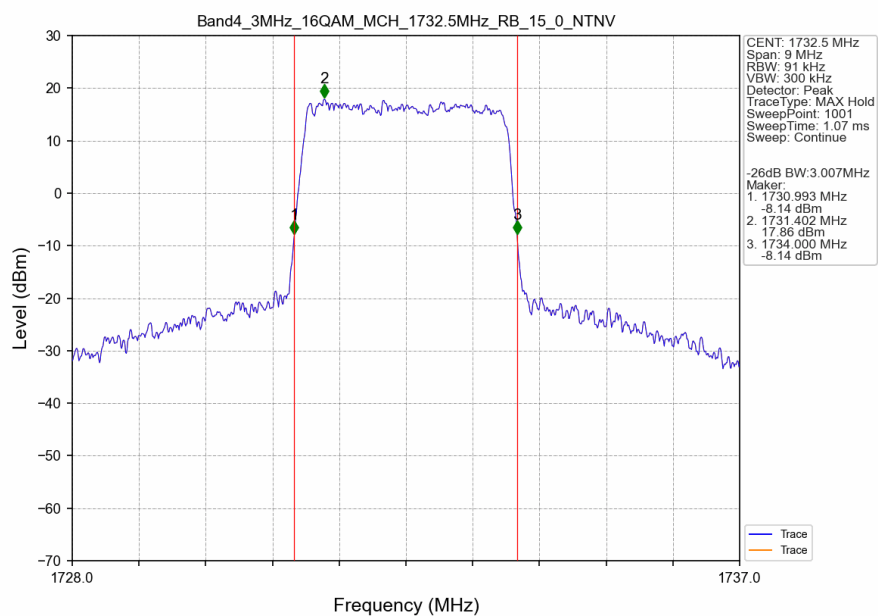
# Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTNV



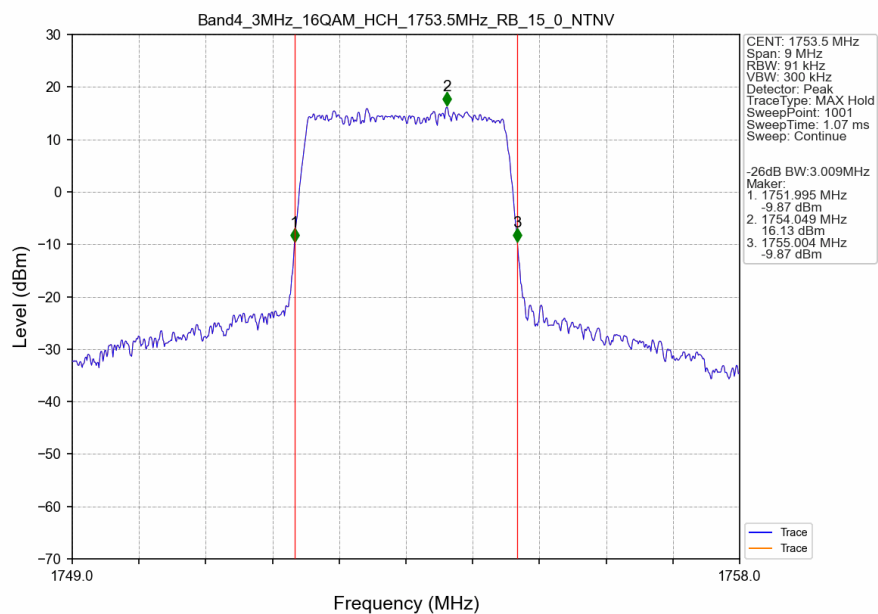
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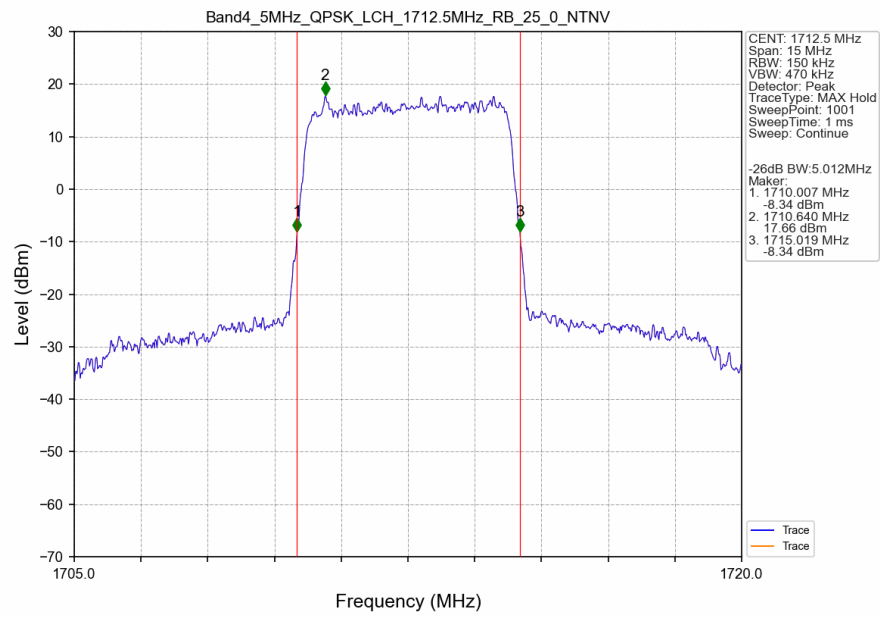
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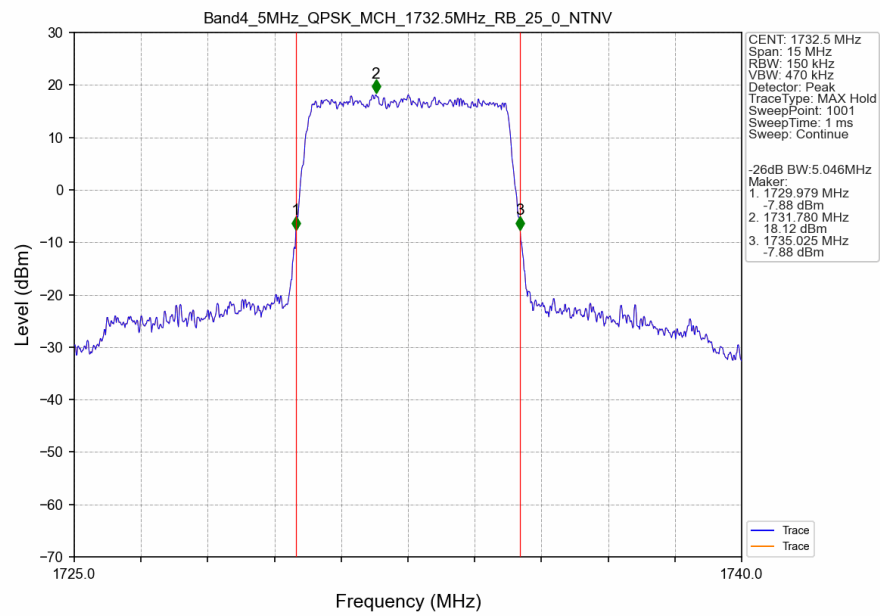
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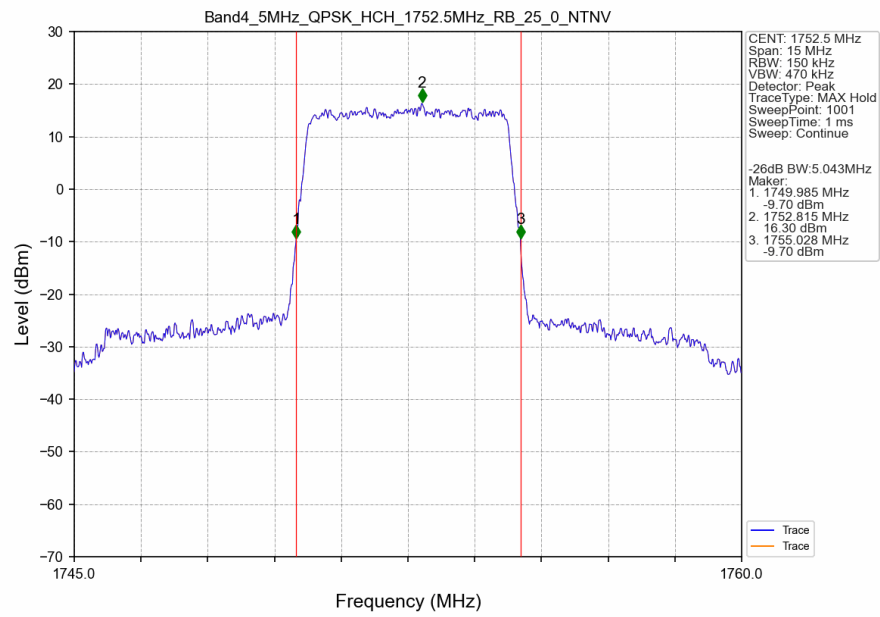
# Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTNV



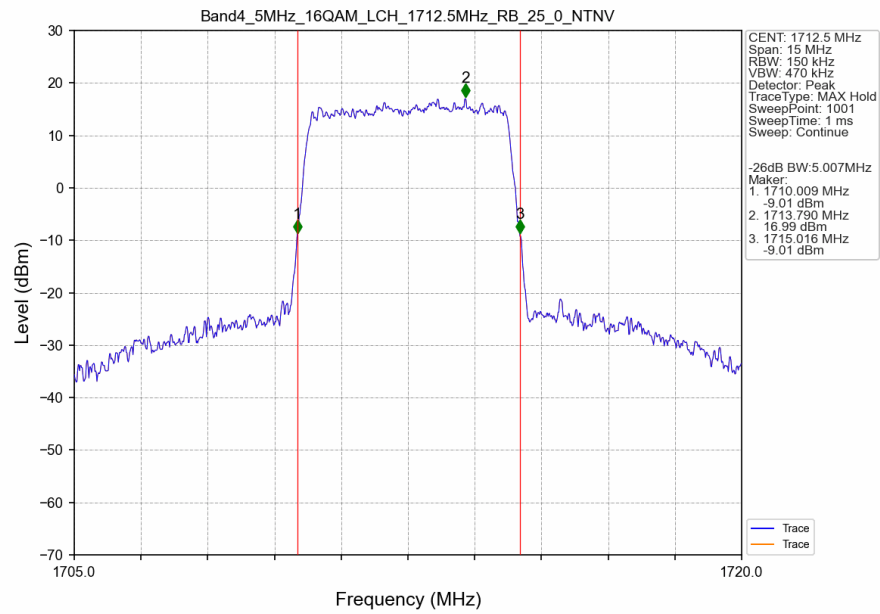
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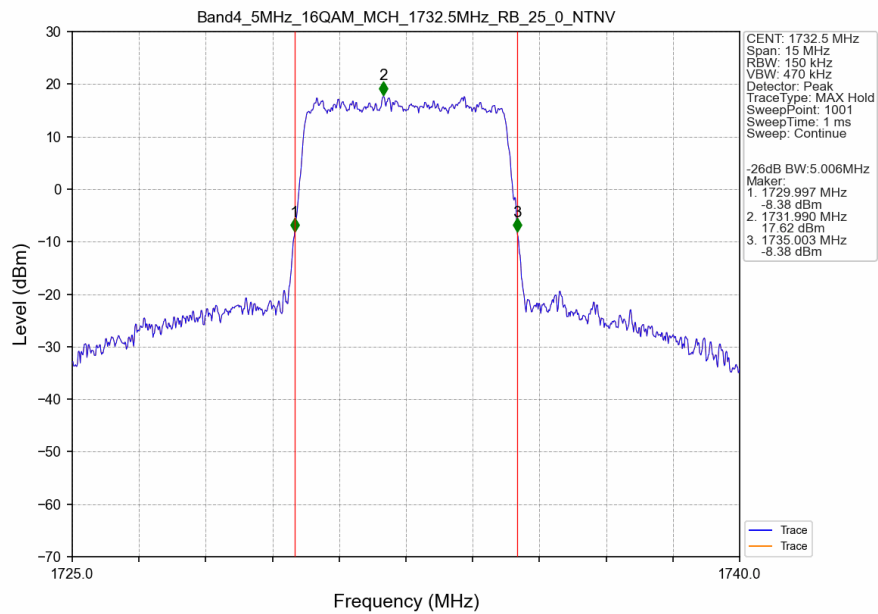
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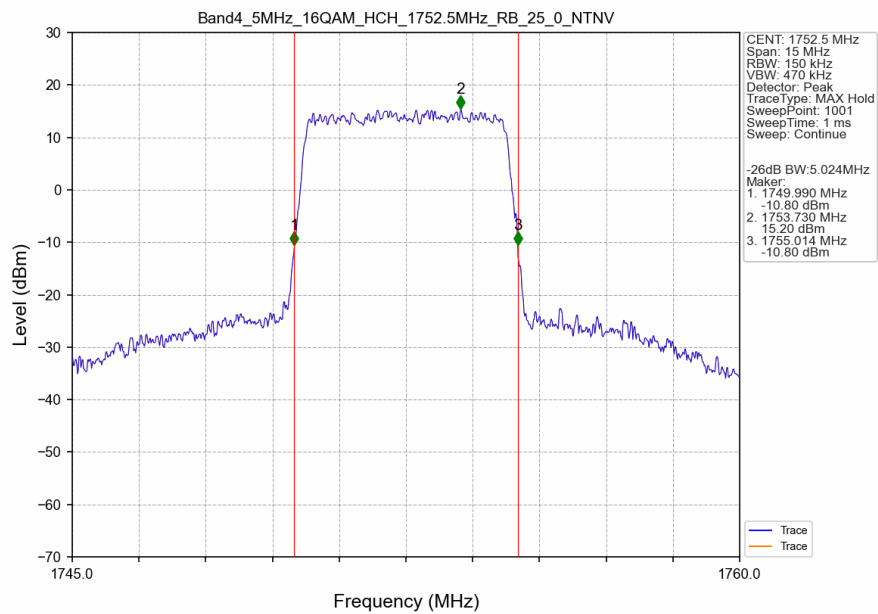
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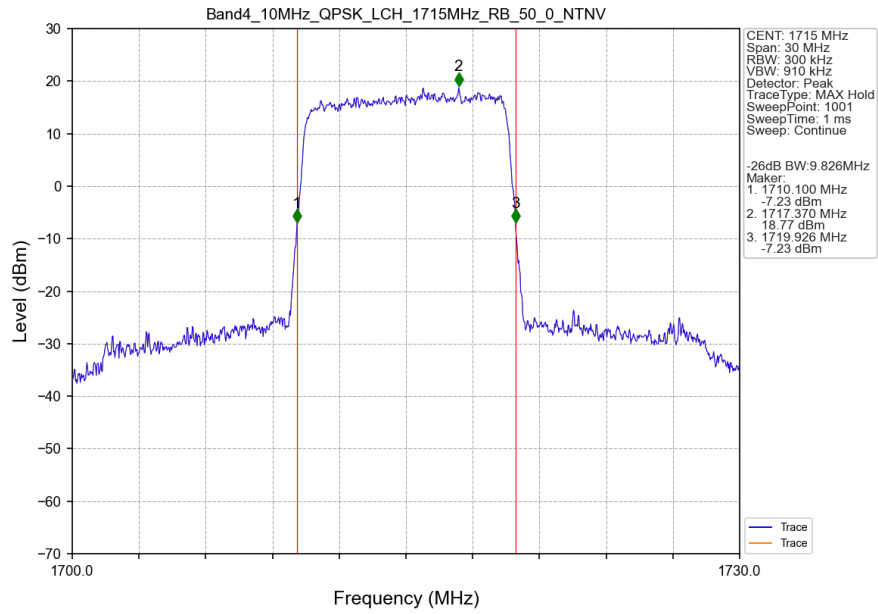
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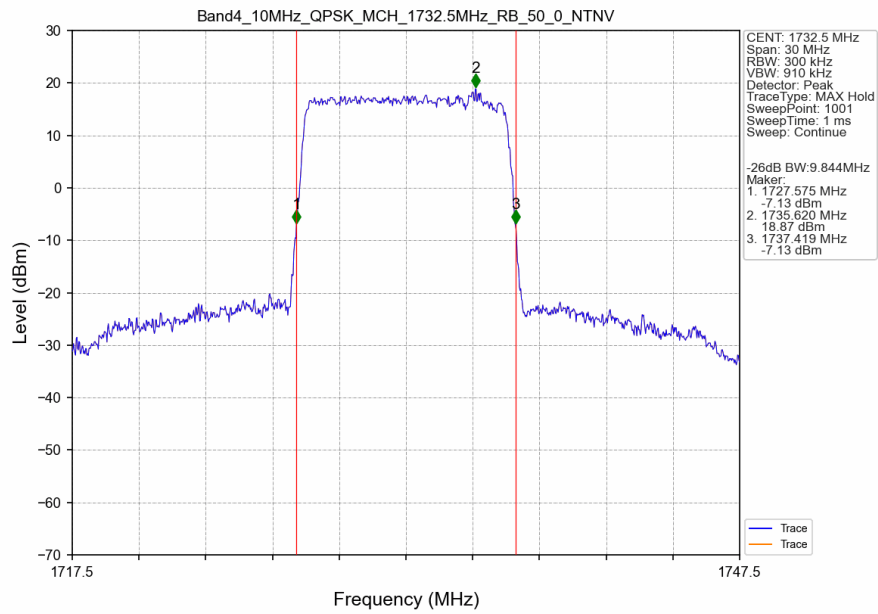
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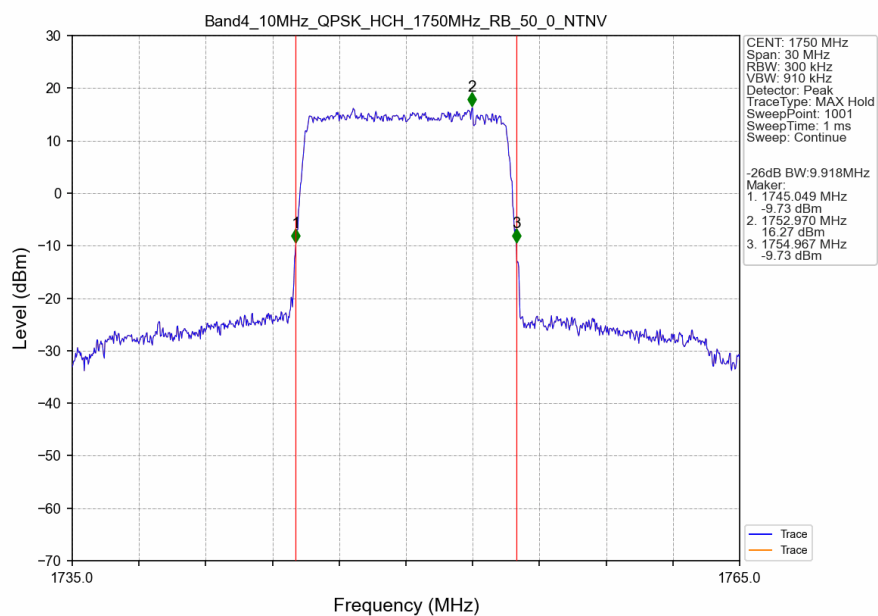
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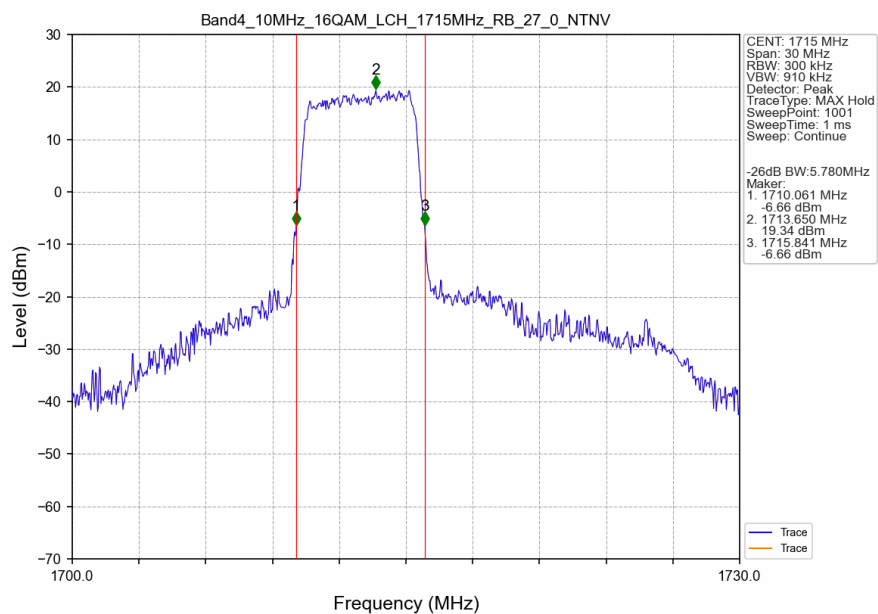
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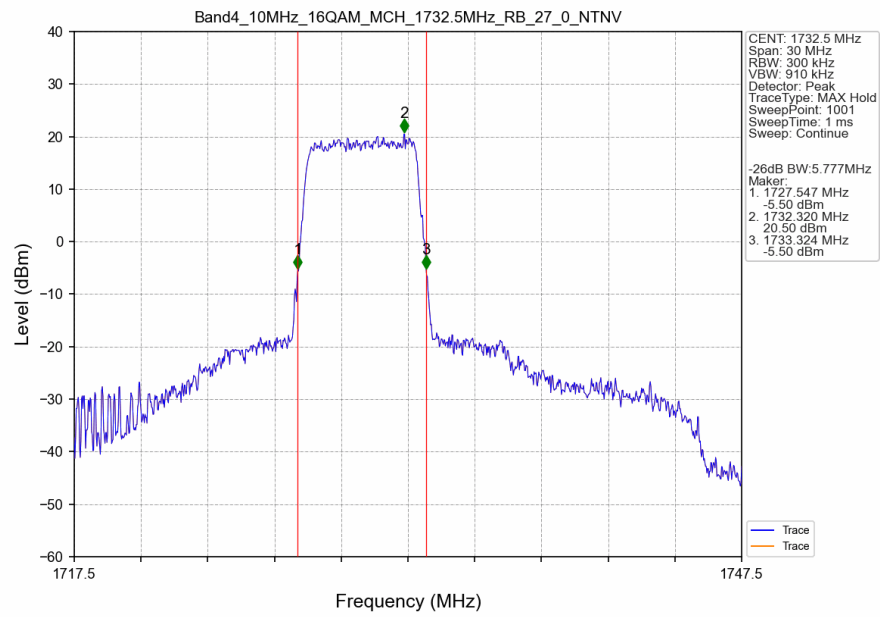
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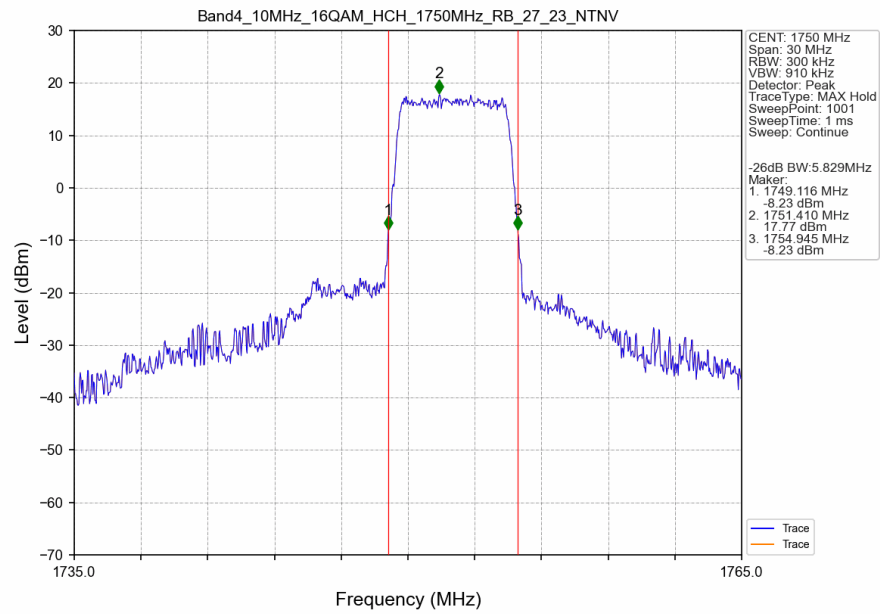
# Band4 10MHz 16QAM LCH 1715MHz RB 27 0 NTNV



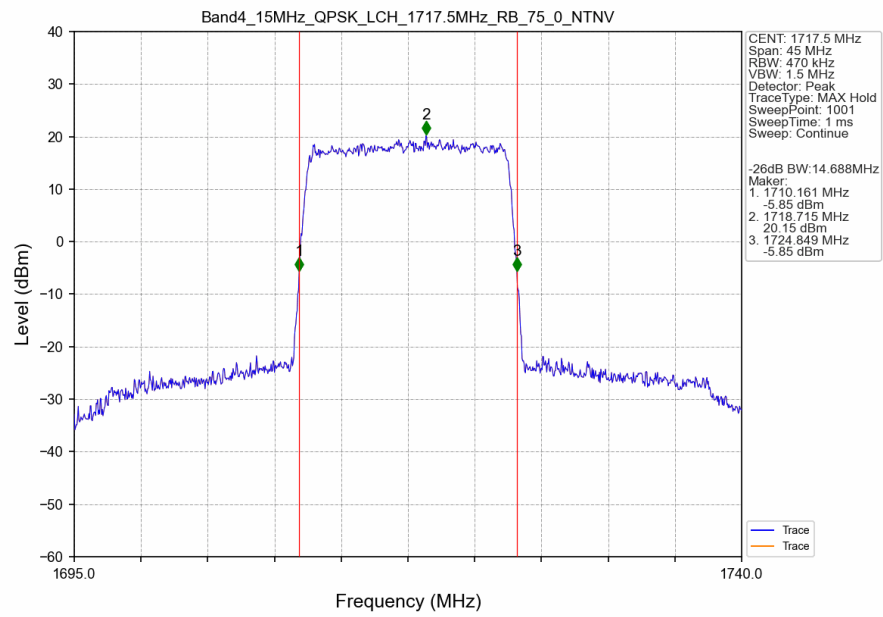
# Band4 10MHz 16QAM MCH 1732.5MHz RB 27 0 NTN



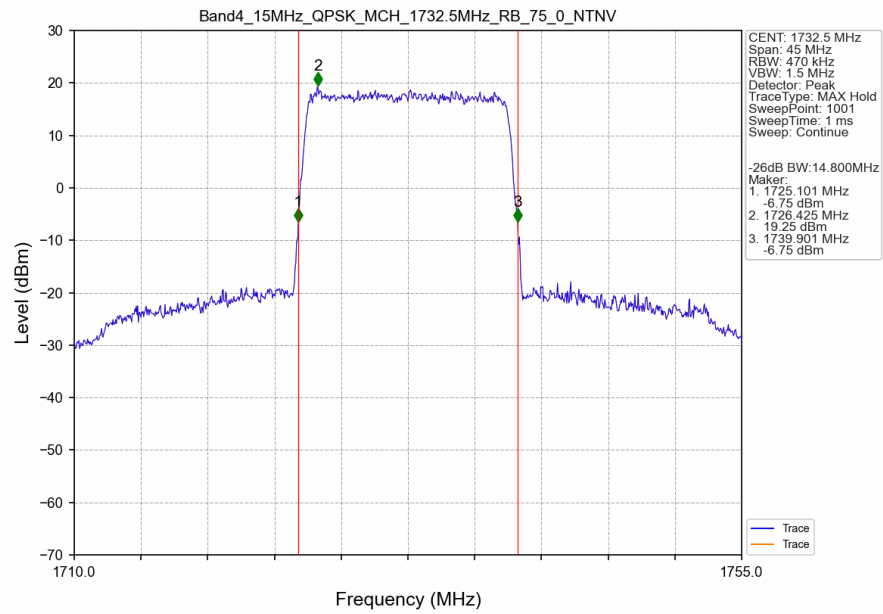
# Band4 10MHz 16QAM HCH 1750MHz RB 27 23 NTN



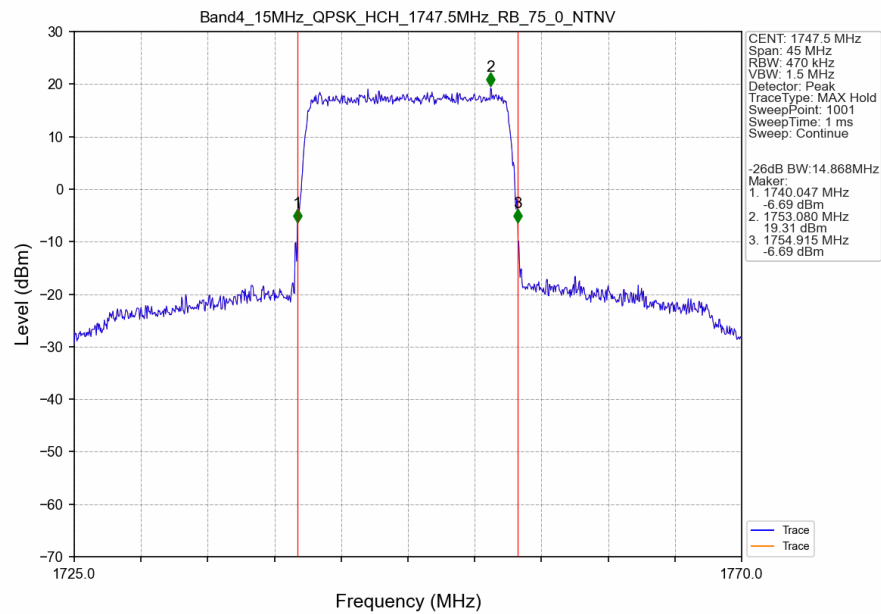
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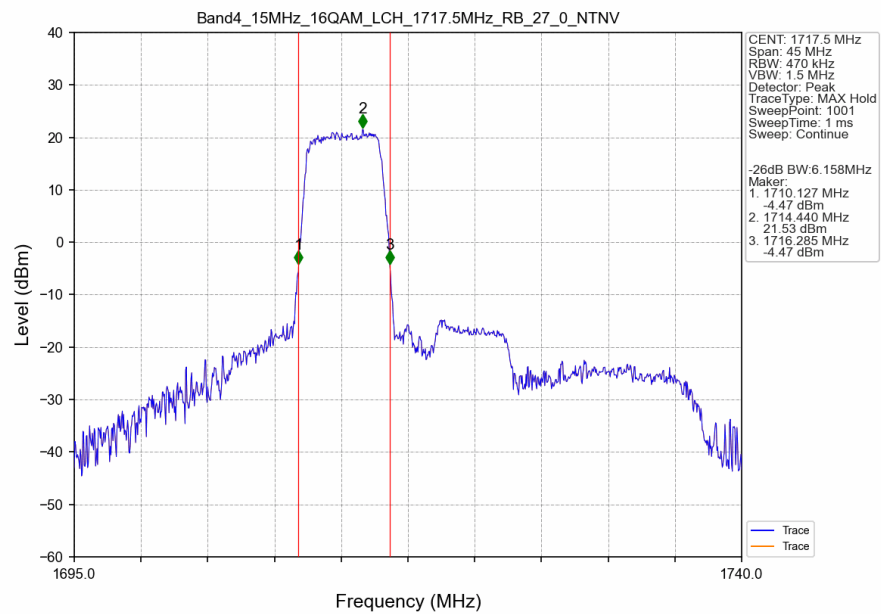
# Band4\_15MHz\_QPSK\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



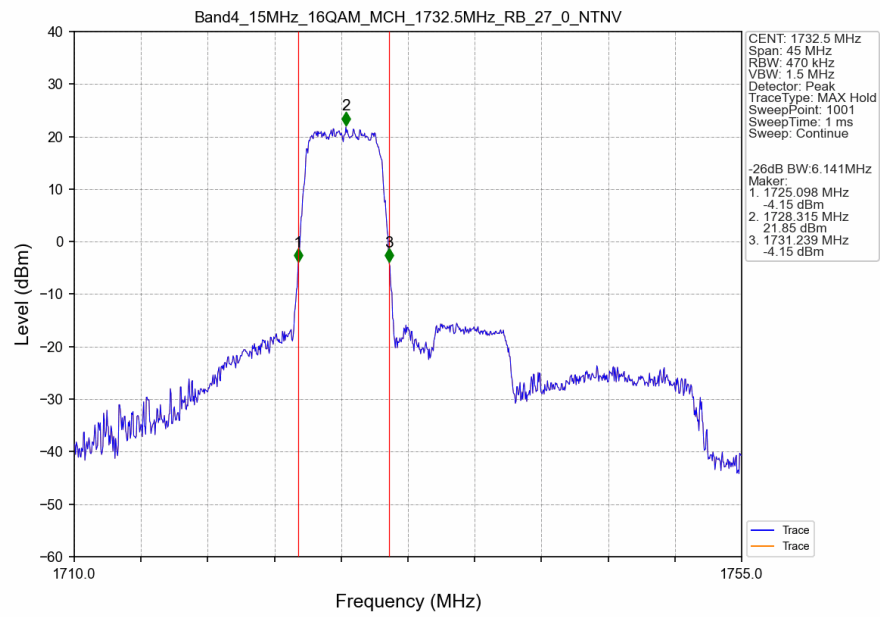
# Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



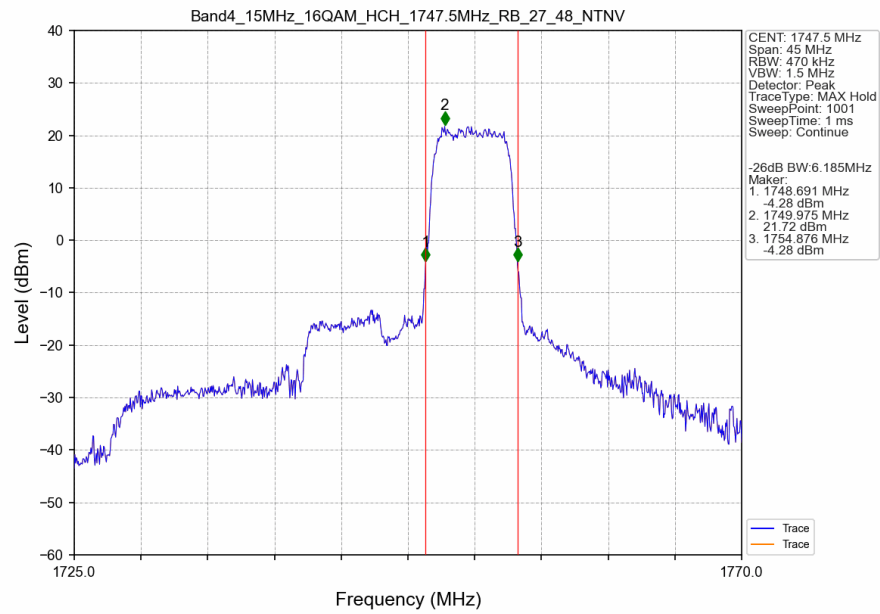
# Band4\_15MHz\_16QAM\_LCH\_1717.5MHz\_RB\_27\_0\_NTNV



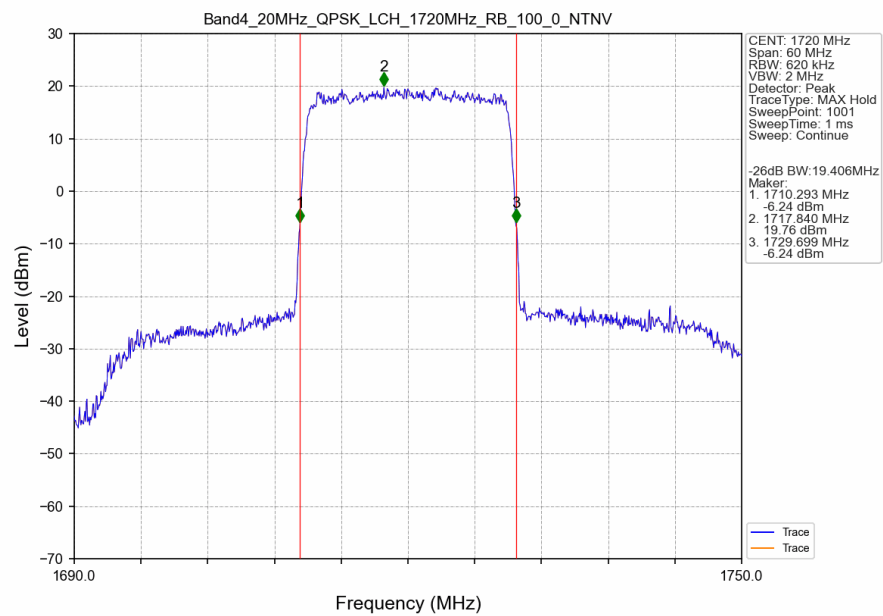
# Band4 15MHz 16QAM MCH 1732.5MHz RB 27 0 NTV



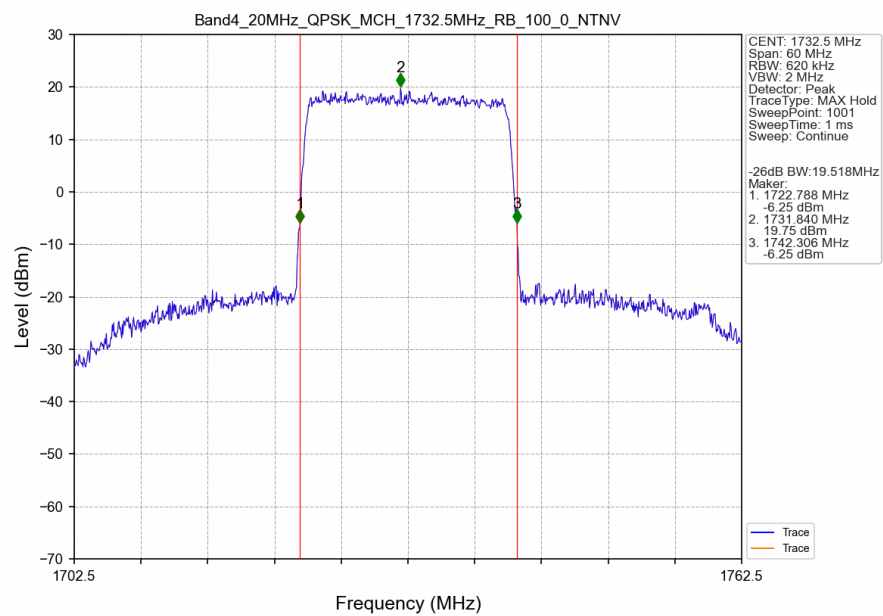
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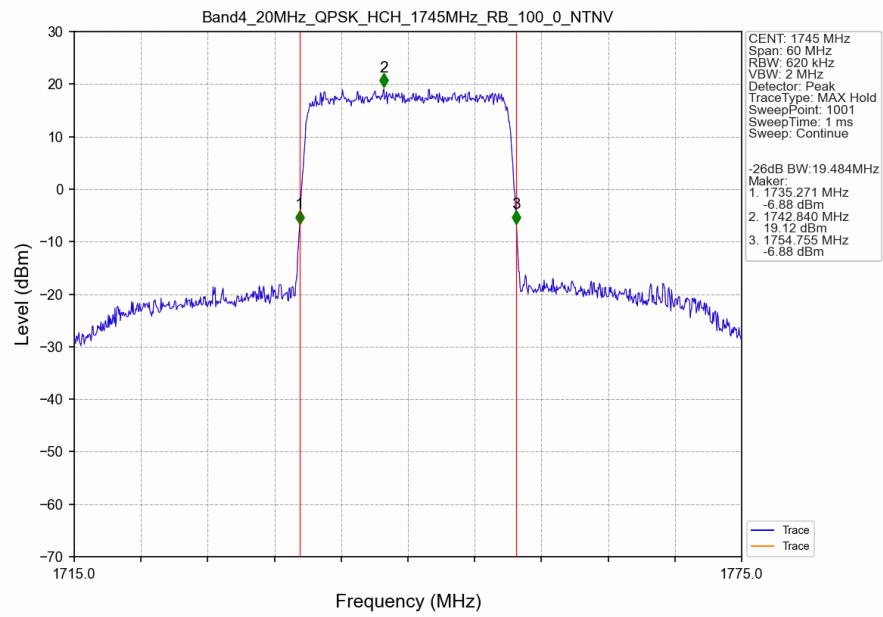
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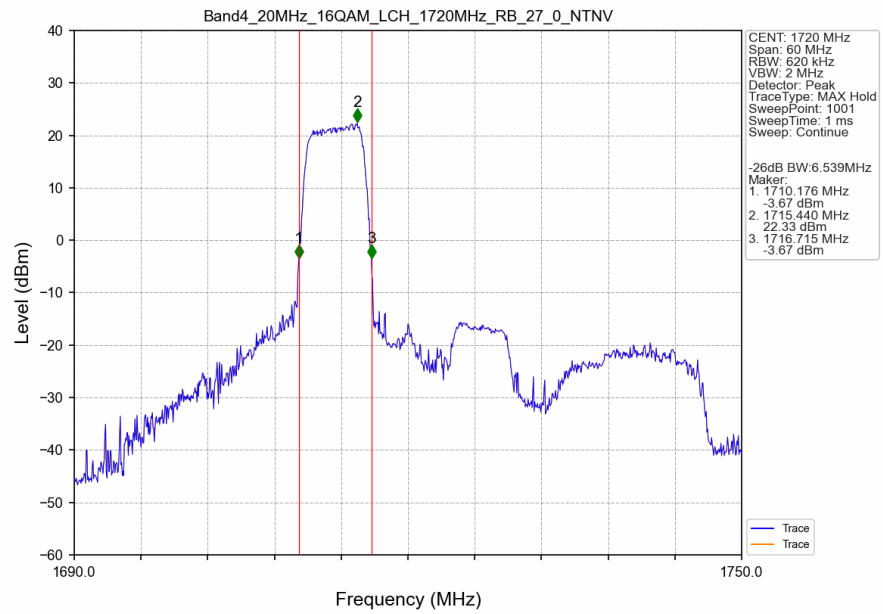
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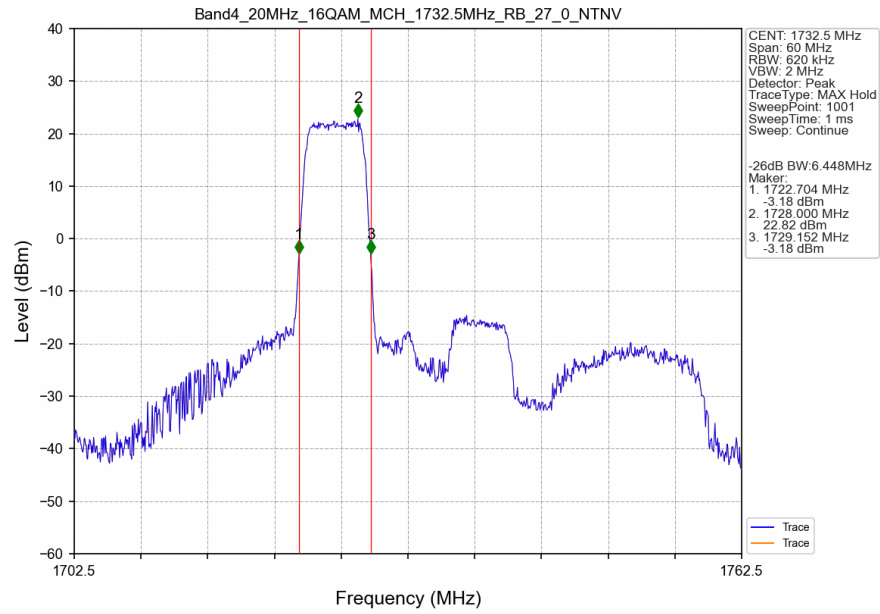
# Band4 20MHz QPSK HCH 1745MHz RB 100 0 NTV



# Band4 20MHz 16QAM LCH 1720MHz RB 27 0 NTV



# Band4 20MHz 16QAM MCH 1732.5MHz RB 27 0 NTN



# Band4 20MHz 16QAM HCH 1745MHz RB 27 73 NTN

