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## 1 Conducted output power

| Band   | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Size | RB<br>Position | Modulation | Conducted<br>Output AV<br>Power<br>(dBm) | Antenna<br>Gain<br>(dBi) | Antenna<br>Gain<br>(dBd) | ERP<br>(dBm) | Limt<br>(dBm) | Verdict |
|--------|--------------------|---------------|------------|----------------|------------|------------------------------------------|--------------------------|--------------------------|--------------|---------------|---------|
| Band12 | 1.4                | 23017         | 1          | #0             | QPSK       | 21.47                                    | -5.53                    | -7.68                    | 13.79        | 34.77         | Pass    |
| Band12 | 1.4                | 23017         | 1          | #Mid           | QPSK       | 21.52                                    | -5.53                    | -7.68                    | 13.84        | 34.77         | Pass    |
| Band12 | 1.4                | 23017         | 1          | #Max           | QPSK       | 21.52                                    | -5.53                    | -7.68                    | 13.84        | 34.77         | Pass    |
| Band12 | 1.4                | 23017         | 3          | #0             | QPSK       | 21.26                                    | -5.53                    | -7.68                    | 13.58        | 34.77         | Pass    |
| Band12 | 1.4                | 23017         | 3          | #Mid           | QPSK       | 21.32                                    | -5.53                    | -7.68                    | 13.64        | 34.77         | Pass    |
| Band12 | 1.4                | 23017         | 3          | #Max           | QPSK       | 21.3                                     | -5.53                    | -7.68                    | 13.62        | 34.77         | Pass    |
| Band12 | 1.4                | 23017         | 6          | #0             | QPSK       | 20.81                                    | -5.53                    | -7.68                    | 13.13        | 34.77         | Pass    |
| Band12 | 1.4                | 23017         | 1          | #0             | QAM16      | 21.77                                    | -5.53                    | -7.68                    | 14.09        | 34.77         | Pass    |
| Band12 | 1.4                | 23017         | 1          | #Mid           | QAM16      | 21.76                                    | -5.53                    | -7.68                    | 14.08        | 34.77         | Pass    |
| Band12 | 1.4                | 23017         | 1          | #Max           | QAM16      | 21.75                                    | -5.53                    | -7.68                    | 14.07        | 34.77         | Pass    |
| Band12 | 1.4                | 23017         | 3          | #0             | QAM16      | 20.56                                    | -5.53                    | -7.68                    | 12.88        | 34.77         | Pass    |
| Band12 | 1.4                | 23017         | 3          | #Mid           | QAM16      | 20.54                                    | -5.53                    | -7.68                    | 12.86        | 34.77         | Pass    |
| Band12 | 1.4                | 23017         | 3          | #Max           | QAM16      | 20.52                                    | -5.53                    | -7.68                    | 12.84        | 34.77         | Pass    |
| Band12 | 1.4                | 23017         | 6          | #0             | QAM16      | 19.24                                    | -5.53                    | -7.68                    | 11.56        | 34.77         | Pass    |
| Band12 | 1.4                | 23095         | 1          | #0             | QPSK       | 21.27                                    | -5.53                    | -7.68                    | 13.59        | 34.77         | Pass    |
| Band12 | 1.4                | 23095         | 1          | #Mid           | QPSK       | 21.34                                    | -5.53                    | -7.68                    | 13.66        | 34.77         | Pass    |
| Band12 | 1.4                | 23095         | 1          | #Max           | QPSK       | 21.28                                    | -5.53                    | -7.68                    | 13.60        | 34.77         | Pass    |
| Band12 | 1.4                | 23095         | 3          | #0             | QPSK       | 21.37                                    | -5.53                    | -7.68                    | 13.69        | 34.77         | Pass    |
| Band12 | 1.4                | 23095         | 3          | #Mid           | QPSK       | 21.43                                    | -5.53                    | -7.68                    | 13.75        | 34.77         | Pass    |
| Band12 | 1.4                | 23095         | 3          | #Max           | QPSK       | 21.35                                    | -5.53                    | -7.68                    | 13.67        | 34.77         | Pass    |
| Band12 | 1.4                | 23095         | 6          | #0             | QPSK       | 20.71                                    | -5.53                    | -7.68                    | 13.03        | 34.77         | Pass    |
| Band12 | 1.4                | 23095         | 1          | #0             | QAM16      | 21.32                                    | -5.53                    | -7.68                    | 13.64        | 34.77         | Pass    |
| Band12 | 1.4                | 23095         | 1          | #Mid           | QAM16      | 21.26                                    | -5.53                    | -7.68                    | 13.58        | 34.77         | Pass    |
| Band12 | 1.4                | 23095         | 1          | #Max           | QAM16      | 21.26                                    | -5.53                    | -7.68                    | 13.58        | 34.77         | Pass    |
| Band12 | 1.4                | 23095         | 3          | #0             | QAM16      | 20.2                                     | -5.53                    | -7.68                    | 12.52        | 34.77         | Pass    |
| Band12 | 1.4                | 23095         | 3          | #Mid           | QAM16      | 20.35                                    | -5.53                    | -7.68                    | 12.67        | 34.77         | Pass    |
| Band12 | 1.4                | 23095         | 3          | #Max           | QAM16      | 20.19                                    | -5.53                    | -7.68                    | 12.51        | 34.77         | Pass    |
| Band12 | 1.4                | 23095         | 6          | #0             | QAM16      | 19.66                                    | -5.53                    | -7.68                    | 11.98        | 34.77         | Pass    |
| Band12 | 1.4                | 23173         | 1          | #0             | QPSK       | 21.18                                    | -5.53                    | -7.68                    | 13.50        | 34.77         | Pass    |
| Band12 | 1.4                | 23173         | 1          | #Mid           | QPSK       | 21.32                                    | -5.53                    | -7.68                    | 13.64        | 34.77         | Pass    |
| Band12 | 1.4                | 23173         | 1          | #Max           | QPSK       | 21.31                                    | -5.53                    | -7.68                    | 13.63        | 34.77         | Pass    |
| Band12 | 1.4                | 23173         | 3          | #0             | QPSK       | 21.12                                    | -5.53                    | -7.68                    | 13.44        | 34.77         | Pass    |
| Band12 | 1.4                | 23173         | 3          | #Mid           | QPSK       | 21.22                                    | -5.53                    | -7.68                    | 13.54        | 34.77         | Pass    |
| Band12 | 1.4                | 23173         | 3          | #Max           | QPSK       | 21.18                                    | -5.53                    | -7.68                    | 13.50        | 34.77         | Pass    |
| Band12 | 1.4                | 23173         | 6          | #0             | QPSK       | 20.77                                    | -5.53                    | -7.68                    | 13.09        | 34.77         | Pass    |
| Band12 | 1.4                | 23173         | 1          | #0             | QAM16      | 21.85                                    | -5.53                    | -7.68                    | 14.17        | 34.77         | Pass    |
| Band12 | 1.4                | 23173         | 1          | #Mid           | QAM16      | 21.81                                    | -5.53                    | -7.68                    | 14.13        | 34.77         | Pass    |

|        |     |       |    |      |       |       |       |       |       |       |      |
|--------|-----|-------|----|------|-------|-------|-------|-------|-------|-------|------|
| Band12 | 1.4 | 23173 | 1  | #Max | QAM16 | 21.83 | -5.53 | -7.68 | 14.15 | 34.77 | Pass |
| Band12 | 1.4 | 23173 | 3  | #0   | QAM16 | 20.5  | -5.53 | -7.68 | 12.82 | 34.77 | Pass |
| Band12 | 1.4 | 23173 | 3  | #Mid | QAM16 | 20.56 | -5.53 | -7.68 | 12.88 | 34.77 | Pass |
| Band12 | 1.4 | 23173 | 3  | #Max | QAM16 | 20.5  | -5.53 | -7.68 | 12.82 | 34.77 | Pass |
| Band12 | 1.4 | 23173 | 6  | #0   | QAM16 | 19.86 | -5.53 | -7.68 | 12.18 | 34.77 | Pass |
| Band12 | 3   | 23025 | 1  | #0   | QPSK  | 21.43 | -5.53 | -7.68 | 13.75 | 34.77 | Pass |
| Band12 | 3   | 23025 | 1  | #Mid | QPSK  | 21.54 | -5.53 | -7.68 | 13.86 | 34.77 | Pass |
| Band12 | 3   | 23025 | 1  | #Max | QPSK  | 21.63 | -5.53 | -7.68 | 13.95 | 34.77 | Pass |
| Band12 | 3   | 23025 | 8  | #0   | QPSK  | 20.9  | -5.53 | -7.68 | 13.22 | 34.77 | Pass |
| Band12 | 3   | 23025 | 8  | #Mid | QPSK  | 20.89 | -5.53 | -7.68 | 13.21 | 34.77 | Pass |
| Band12 | 3   | 23025 | 8  | #Max | QPSK  | 20.94 | -5.53 | -7.68 | 13.26 | 34.77 | Pass |
| Band12 | 3   | 23025 | 15 | #0   | QPSK  | 20.91 | -5.53 | -7.68 | 13.23 | 34.77 | Pass |
| Band12 | 3   | 23025 | 1  | #0   | QAM16 | 21.69 | -5.53 | -7.68 | 14.01 | 34.77 | Pass |
| Band12 | 3   | 23025 | 1  | #Mid | QAM16 | 21.72 | -5.53 | -7.68 | 14.04 | 34.77 | Pass |
| Band12 | 3   | 23025 | 1  | #Max | QAM16 | 21.63 | -5.53 | -7.68 | 13.95 | 34.77 | Pass |
| Band12 | 3   | 23025 | 8  | #0   | QAM16 | 19.22 | -5.53 | -7.68 | 11.54 | 34.77 | Pass |
| Band12 | 3   | 23025 | 8  | #Mid | QAM16 | 19.3  | -5.53 | -7.68 | 11.62 | 34.77 | Pass |
| Band12 | 3   | 23025 | 8  | #Max | QAM16 | 19.28 | -5.53 | -7.68 | 11.60 | 34.77 | Pass |
| Band12 | 3   | 23025 | 15 | #0   | QAM16 | 19.33 | -5.53 | -7.68 | 11.65 | 34.77 | Pass |
| Band12 | 3   | 23095 | 1  | #0   | QPSK  | 21.38 | -5.53 | -7.68 | 13.70 | 34.77 | Pass |
| Band12 | 3   | 23095 | 1  | #Mid | QPSK  | 21.31 | -5.53 | -7.68 | 13.63 | 34.77 | Pass |
| Band12 | 3   | 23095 | 1  | #Max | QPSK  | 21.3  | -5.53 | -7.68 | 13.62 | 34.77 | Pass |
| Band12 | 3   | 23095 | 8  | #0   | QPSK  | 20.79 | -5.53 | -7.68 | 13.11 | 34.77 | Pass |
| Band12 | 3   | 23095 | 8  | #Mid | QPSK  | 20.82 | -5.53 | -7.68 | 13.14 | 34.77 | Pass |
| Band12 | 3   | 23095 | 8  | #Max | QPSK  | 20.76 | -5.53 | -7.68 | 13.08 | 34.77 | Pass |
| Band12 | 3   | 23095 | 15 | #0   | QPSK  | 20.74 | -5.53 | -7.68 | 13.06 | 34.77 | Pass |
| Band12 | 3   | 23095 | 1  | #0   | QAM16 | 21.79 | -5.53 | -7.68 | 14.11 | 34.77 | Pass |
| Band12 | 3   | 23095 | 1  | #Mid | QAM16 | 21.65 | -5.53 | -7.68 | 13.97 | 34.77 | Pass |
| Band12 | 3   | 23095 | 1  | #Max | QAM16 | 21.67 | -5.53 | -7.68 | 13.99 | 34.77 | Pass |
| Band12 | 3   | 23095 | 8  | #0   | QAM16 | 19.24 | -5.53 | -7.68 | 11.56 | 34.77 | Pass |
| Band12 | 3   | 23095 | 8  | #Mid | QAM16 | 19.67 | -5.53 | -7.68 | 11.99 | 34.77 | Pass |
| Band12 | 3   | 23095 | 8  | #Max | QAM16 | 19.62 | -5.53 | -7.68 | 11.94 | 34.77 | Pass |
| Band12 | 3   | 23095 | 15 | #0   | QAM16 | 19.89 | -5.53 | -7.68 | 12.21 | 34.77 | Pass |
| Band12 | 3   | 23165 | 1  | #0   | QPSK  | 21.25 | -5.53 | -7.68 | 13.57 | 34.77 | Pass |
| Band12 | 3   | 23165 | 1  | #Mid | QPSK  | 21.23 | -5.53 | -7.68 | 13.55 | 34.77 | Pass |
| Band12 | 3   | 23165 | 1  | #Max | QPSK  | 21.3  | -5.53 | -7.68 | 13.62 | 34.77 | Pass |
| Band12 | 3   | 23165 | 8  | #0   | QPSK  | 20.73 | -5.53 | -7.68 | 13.05 | 34.77 | Pass |
| Band12 | 3   | 23165 | 8  | #Mid | QPSK  | 20.8  | -5.53 | -7.68 | 13.12 | 34.77 | Pass |
| Band12 | 3   | 23165 | 8  | #Max | QPSK  | 20.78 | -5.53 | -7.68 | 13.10 | 34.77 | Pass |
| Band12 | 3   | 23165 | 15 | #0   | QPSK  | 20.63 | -5.53 | -7.68 | 12.95 | 34.77 | Pass |
| Band12 | 3   | 23165 | 1  | #0   | QAM16 | 21.12 | -5.53 | -7.68 | 13.44 | 34.77 | Pass |
| Band12 | 3   | 23165 | 1  | #Mid | QAM16 | 21.23 | -5.53 | -7.68 | 13.55 | 34.77 | Pass |
| Band12 | 3   | 23165 | 1  | #Max | QAM16 | 21.08 | -5.53 | -7.68 | 13.40 | 34.77 | Pass |
| Band12 | 3   | 23165 | 8  | #0   | QAM16 | 20    | -5.53 | -7.68 | 12.32 | 34.77 | Pass |

|        |   |       |    |      |       |       |       |       |       |       |      |
|--------|---|-------|----|------|-------|-------|-------|-------|-------|-------|------|
| Band12 | 3 | 23165 | 8  | #Mid | QAM16 | 19.85 | -5.53 | -7.68 | 12.17 | 34.77 | Pass |
| Band12 | 3 | 23165 | 8  | #Max | QAM16 | 19.93 | -5.53 | -7.68 | 12.25 | 34.77 | Pass |
| Band12 | 3 | 23165 | 15 | #0   | QAM16 | 19.81 | -5.53 | -7.68 | 12.13 | 34.77 | Pass |
| Band12 | 5 | 23035 | 1  | #0   | QPSK  | 21.25 | -5.53 | -7.68 | 13.57 | 34.77 | Pass |
| Band12 | 5 | 23035 | 1  | #Mid | QPSK  | 21.36 | -5.53 | -7.68 | 13.68 | 34.77 | Pass |
| Band12 | 5 | 23035 | 1  | #Max | QPSK  | 21.37 | -5.53 | -7.68 | 13.69 | 34.77 | Pass |
| Band12 | 5 | 23035 | 12 | #0   | QPSK  | 20.89 | -5.53 | -7.68 | 13.21 | 34.77 | Pass |
| Band12 | 5 | 23035 | 12 | #Mid | QPSK  | 20.88 | -5.53 | -7.68 | 13.20 | 34.77 | Pass |
| Band12 | 5 | 23035 | 12 | #Max | QPSK  | 20.89 | -5.53 | -7.68 | 13.21 | 34.77 | Pass |
| Band12 | 5 | 23035 | 25 | #0   | QPSK  | 20.87 | -5.53 | -7.68 | 13.19 | 34.77 | Pass |
| Band12 | 5 | 23035 | 1  | #0   | QAM16 | 20.94 | -5.53 | -7.68 | 13.26 | 34.77 | Pass |
| Band12 | 5 | 23035 | 1  | #Mid | QAM16 | 21.04 | -5.53 | -7.68 | 13.36 | 34.77 | Pass |
| Band12 | 5 | 23035 | 1  | #Max | QAM16 | 20.98 | -5.53 | -7.68 | 13.30 | 34.77 | Pass |
| Band12 | 5 | 23035 | 12 | #0   | QAM16 | 19.08 | -5.53 | -7.68 | 11.40 | 34.77 | Pass |
| Band12 | 5 | 23035 | 12 | #Mid | QAM16 | 19.39 | -5.53 | -7.68 | 11.71 | 34.77 | Pass |
| Band12 | 5 | 23035 | 12 | #Max | QAM16 | 19.44 | -5.53 | -7.68 | 11.76 | 34.77 | Pass |
| Band12 | 5 | 23035 | 25 | #0   | QAM16 | 19.55 | -5.53 | -7.68 | 11.87 | 34.77 | Pass |
| Band12 | 5 | 23095 | 1  | #0   | QPSK  | 21.35 | -5.53 | -7.68 | 13.67 | 34.77 | Pass |
| Band12 | 5 | 23095 | 1  | #Mid | QPSK  | 21.27 | -5.53 | -7.68 | 13.59 | 34.77 | Pass |
| Band12 | 5 | 23095 | 1  | #Max | QPSK  | 21.34 | -5.53 | -7.68 | 13.66 | 34.77 | Pass |
| Band12 | 5 | 23095 | 12 | #0   | QPSK  | 20.8  | -5.53 | -7.68 | 13.12 | 34.77 | Pass |
| Band12 | 5 | 23095 | 12 | #Mid | QPSK  | 20.75 | -5.53 | -7.68 | 13.07 | 34.77 | Pass |
| Band12 | 5 | 23095 | 12 | #Max | QPSK  | 20.66 | -5.53 | -7.68 | 12.98 | 34.77 | Pass |
| Band12 | 5 | 23095 | 25 | #0   | QPSK  | 20.69 | -5.53 | -7.68 | 13.01 | 34.77 | Pass |
| Band12 | 5 | 23095 | 1  | #0   | QAM16 | 20.52 | -5.53 | -7.68 | 12.84 | 34.77 | Pass |
| Band12 | 5 | 23095 | 1  | #Mid | QAM16 | 20.42 | -5.53 | -7.68 | 12.74 | 34.77 | Pass |
| Band12 | 5 | 23095 | 1  | #Max | QAM16 | 20.38 | -5.53 | -7.68 | 12.70 | 34.77 | Pass |
| Band12 | 5 | 23095 | 12 | #0   | QAM16 | 19.32 | -5.53 | -7.68 | 11.64 | 34.77 | Pass |
| Band12 | 5 | 23095 | 12 | #Mid | QAM16 | 19.68 | -5.53 | -7.68 | 12.00 | 34.77 | Pass |
| Band12 | 5 | 23095 | 12 | #Max | QAM16 | 19.68 | -5.53 | -7.68 | 12.00 | 34.77 | Pass |
| Band12 | 5 | 23095 | 25 | #0   | QAM16 | 19.84 | -5.53 | -7.68 | 12.16 | 34.77 | Pass |
| Band12 | 5 | 23155 | 1  | #0   | QPSK  | 21.25 | -5.53 | -7.68 | 13.57 | 34.77 | Pass |
| Band12 | 5 | 23155 | 1  | #Mid | QPSK  | 21.09 | -5.53 | -7.68 | 13.41 | 34.77 | Pass |
| Band12 | 5 | 23155 | 1  | #Max | QPSK  | 21.16 | -5.53 | -7.68 | 13.48 | 34.77 | Pass |
| Band12 | 5 | 23155 | 12 | #0   | QPSK  | 20.59 | -5.53 | -7.68 | 12.91 | 34.77 | Pass |
| Band12 | 5 | 23155 | 12 | #Mid | QPSK  | 20.56 | -5.53 | -7.68 | 12.88 | 34.77 | Pass |
| Band12 | 5 | 23155 | 12 | #Max | QPSK  | 20.59 | -5.53 | -7.68 | 12.91 | 34.77 | Pass |
| Band12 | 5 | 23155 | 25 | #0   | QPSK  | 20.53 | -5.53 | -7.68 | 12.85 | 34.77 | Pass |
| Band12 | 5 | 23155 | 1  | #0   | QAM16 | 20.68 | -5.53 | -7.68 | 13.00 | 34.77 | Pass |
| Band12 | 5 | 23155 | 1  | #Mid | QAM16 | 20.65 | -5.53 | -7.68 | 12.97 | 34.77 | Pass |
| Band12 | 5 | 23155 | 1  | #Max | QAM16 | 20.67 | -5.53 | -7.68 | 12.99 | 34.77 | Pass |
| Band12 | 5 | 23155 | 12 | #0   | QAM16 | 19.34 | -5.53 | -7.68 | 11.66 | 34.77 | Pass |
| Band12 | 5 | 23155 | 12 | #Mid | QAM16 | 19.76 | -5.53 | -7.68 | 12.08 | 34.77 | Pass |
| Band12 | 5 | 23155 | 12 | #Max | QAM16 | 19.75 | -5.53 | -7.68 | 12.07 | 34.77 | Pass |

|        |    |       |    |      |       |       |       |       |       |       |      |
|--------|----|-------|----|------|-------|-------|-------|-------|-------|-------|------|
| Band12 | 5  | 23155 | 25 | #0   | QAM16 | 19.69 | -5.53 | -7.68 | 12.01 | 34.77 | Pass |
| Band12 | 10 | 23060 | 1  | #0   | QPSK  | 21.29 | -5.53 | -7.68 | 13.61 | 34.77 | Pass |
| Band12 | 10 | 23060 | 1  | #Mid | QPSK  | 21.36 | -5.53 | -7.68 | 13.68 | 34.77 | Pass |
| Band12 | 10 | 23060 | 1  | #Max | QPSK  | 21.3  | -5.53 | -7.68 | 13.62 | 34.77 | Pass |
| Band12 | 10 | 23060 | 25 | #0   | QPSK  | 20.86 | -5.53 | -7.68 | 13.18 | 34.77 | Pass |
| Band12 | 10 | 23060 | 25 | #Mid | QPSK  | 20.89 | -5.53 | -7.68 | 13.21 | 34.77 | Pass |
| Band12 | 10 | 23060 | 25 | #Max | QPSK  | 20.82 | -5.53 | -7.68 | 13.14 | 34.77 | Pass |
| Band12 | 10 | 23060 | 50 | #0   | QPSK  | 21.1  | -5.53 | -7.68 | 13.42 | 34.77 | Pass |
| Band12 | 10 | 23060 | 1  | #0   | QAM16 | 21.83 | -5.53 | -7.68 | 14.15 | 34.77 | Pass |
| Band12 | 10 | 23060 | 1  | #Mid | QAM16 | 21.85 | -5.53 | -7.68 | 14.17 | 34.77 | Pass |
| Band12 | 10 | 23060 | 1  | #Max | QAM16 | 21.7  | -5.53 | -7.68 | 14.02 | 34.77 | Pass |
| Band12 | 10 | 23060 | 25 | #0   | QAM16 | 19.41 | -5.53 | -7.68 | 11.73 | 34.77 | Pass |
| Band12 | 10 | 23060 | 25 | #Mid | QAM16 | 19.45 | -5.53 | -7.68 | 11.77 | 34.77 | Pass |
| Band12 | 10 | 23060 | 25 | #Max | QAM16 | 19.27 | -5.53 | -7.68 | 11.59 | 34.77 | Pass |
| Band12 | 10 | 23060 | 50 | #0   | QAM16 | 19.49 | -5.53 | -7.68 | 11.81 | 34.77 | Pass |
| Band12 | 10 | 23095 | 1  | #0   | QPSK  | 21.49 | -5.53 | -7.68 | 13.81 | 34.77 | Pass |
| Band12 | 10 | 23095 | 1  | #Mid | QPSK  | 21.42 | -5.53 | -7.68 | 13.74 | 34.77 | Pass |
| Band12 | 10 | 23095 | 1  | #Max | QPSK  | 21.38 | -5.53 | -7.68 | 13.70 | 34.77 | Pass |
| Band12 | 10 | 23095 | 25 | #0   | QPSK  | 20.72 | -5.53 | -7.68 | 13.04 | 34.77 | Pass |
| Band12 | 10 | 23095 | 25 | #Mid | QPSK  | 20.87 | -5.53 | -7.68 | 13.19 | 34.77 | Pass |
| Band12 | 10 | 23095 | 25 | #Max | QPSK  | 20.82 | -5.53 | -7.68 | 13.14 | 34.77 | Pass |
| Band12 | 10 | 23095 | 50 | #0   | QPSK  | 20.74 | -5.53 | -7.68 | 13.06 | 34.77 | Pass |
| Band12 | 10 | 23095 | 1  | #0   | QAM16 | 20.9  | -5.53 | -7.68 | 13.22 | 34.77 | Pass |
| Band12 | 10 | 23095 | 1  | #Mid | QAM16 | 20.79 | -5.53 | -7.68 | 13.11 | 34.77 | Pass |
| Band12 | 10 | 23095 | 1  | #Max | QAM16 | 20.75 | -5.53 | -7.68 | 13.07 | 34.77 | Pass |
| Band12 | 10 | 23095 | 25 | #0   | QAM16 | 19.5  | -5.53 | -7.68 | 11.82 | 34.77 | Pass |
| Band12 | 10 | 23095 | 25 | #Mid | QAM16 | 19.92 | -5.53 | -7.68 | 12.24 | 34.77 | Pass |
| Band12 | 10 | 23095 | 25 | #Max | QAM16 | 19.44 | -5.53 | -7.68 | 11.76 | 34.77 | Pass |
| Band12 | 10 | 23095 | 50 | #0   | QAM16 | 19.91 | -5.53 | -7.68 | 12.23 | 34.77 | Pass |
| Band12 | 10 | 23130 | 1  | #0   | QPSK  | 21.46 | -5.53 | -7.68 | 13.78 | 34.77 | Pass |
| Band12 | 10 | 23130 | 1  | #Mid | QPSK  | 21.33 | -5.53 | -7.68 | 13.65 | 34.77 | Pass |
| Band12 | 10 | 23130 | 1  | #Max | QPSK  | 21.22 | -5.53 | -7.68 | 13.54 | 34.77 | Pass |
| Band12 | 10 | 23130 | 25 | #0   | QPSK  | 20.75 | -5.53 | -7.68 | 13.07 | 34.77 | Pass |
| Band12 | 10 | 23130 | 25 | #Mid | QPSK  | 20.61 | -5.53 | -7.68 | 12.93 | 34.77 | Pass |
| Band12 | 10 | 23130 | 25 | #Max | QPSK  | 20.52 | -5.53 | -7.68 | 12.84 | 34.77 | Pass |
| Band12 | 10 | 23130 | 50 | #0   | QPSK  | 20.61 | -5.53 | -7.68 | 12.93 | 34.77 | Pass |
| Band12 | 10 | 23130 | 1  | #0   | QAM16 | 20.7  | -5.53 | -7.68 | 13.02 | 34.77 | Pass |
| Band12 | 10 | 23130 | 1  | #Mid | QAM16 | 20.55 | -5.53 | -7.68 | 12.87 | 34.77 | Pass |
| Band12 | 10 | 23130 | 1  | #Max | QAM16 | 20.58 | -5.53 | -7.68 | 12.90 | 34.77 | Pass |
| Band12 | 10 | 23130 | 25 | #0   | QAM16 | 19.8  | -5.53 | -7.68 | 12.12 | 34.77 | Pass |
| Band12 | 10 | 23130 | 25 | #Mid | QAM16 | 19.38 | -5.53 | -7.68 | 11.70 | 34.77 | Pass |
| Band12 | 10 | 23130 | 25 | #Max | QAM16 | 19.79 | -5.53 | -7.68 | 12.11 | 34.77 | Pass |
| Band12 | 10 | 23130 | 50 | #0   | QAM16 | 19.36 | -5.53 | -7.68 | 11.68 | 34.77 | Pass |

## 2 Frequency stability

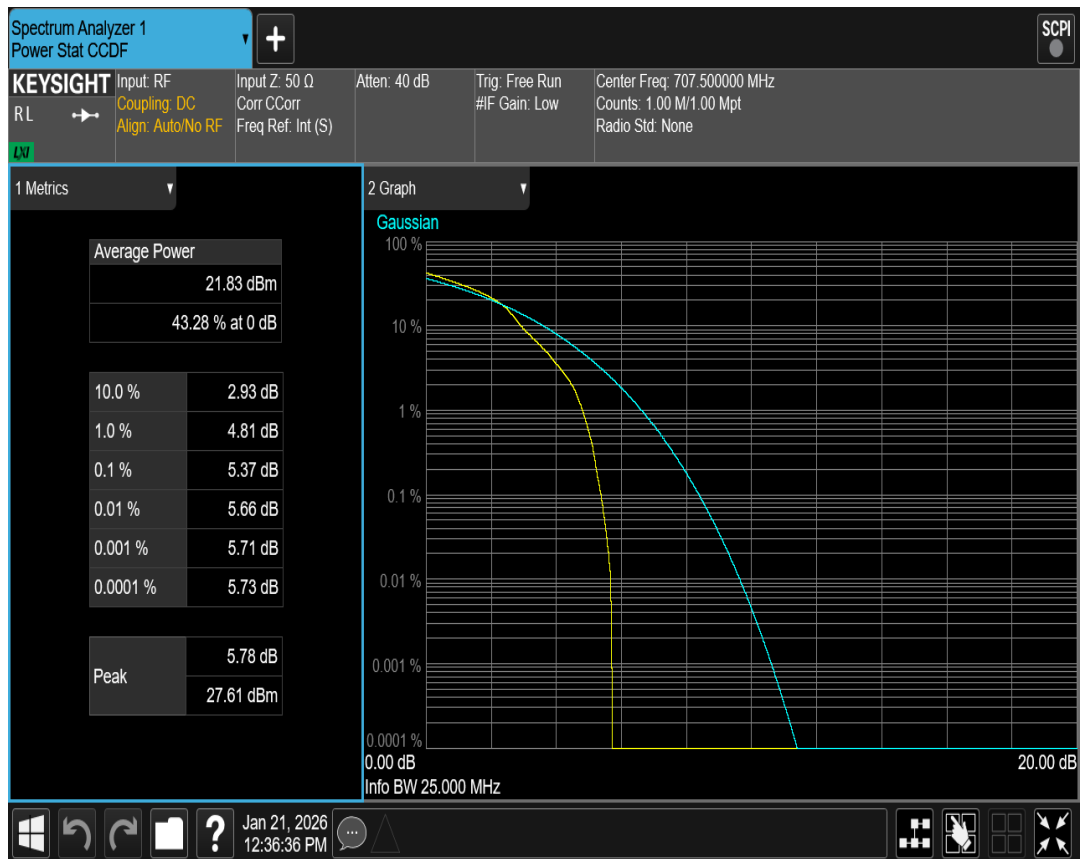
| <i>Band</i> | <i>Bandwidth<br/>(MHz)</i> | <i>UL<br/>Channel</i> | <i>RB<br/>Size</i> | <i>RB<br/>Position</i> | <i>Modulation</i> | <i>Result(Hz)</i> | <i>Result<br/>(ppm)</i> | <i>Low<br/>Limit<br/>(ppm)</i> | <i>high<br/>Limit<br/>(ppm)</i> | <i>Verdict</i> |
|-------------|----------------------------|-----------------------|--------------------|------------------------|-------------------|-------------------|-------------------------|--------------------------------|---------------------------------|----------------|
| Band12      | 10                         | 23060                 | 50                 | #0                     | QPSK              | 5.56              | 0.00790                 | -2.5                           | 2.5                             | PASS           |
| Band12      | 10                         | 23060                 | 50                 | #0                     | QAM16             | 5.76              | 0.00818                 | -2.5                           | 2.5                             | PASS           |
| Band12      | 10                         | 23095                 | 50                 | #0                     | QPSK              | 6.25              | 0.00883                 | -2.5                           | 2.5                             | PASS           |
| Band12      | 10                         | 23095                 | 50                 | #0                     | QAM16             | 2.97              | 0.00420                 | -2.5                           | 2.5                             | PASS           |
| Band12      | 10                         | 23130                 | 50                 | #0                     | QPSK              | 3.34              | 0.00470                 | -2.5                           | 2.5                             | PASS           |
| Band12      | 10                         | 23130                 | 50                 | #0                     | QAM16             | 3.21              | 0.00451                 | -2.5                           | 2.5                             | PASS           |

Note: (Voltage: 3.85V, Temperature: 25°C) only reflect the worst mode.

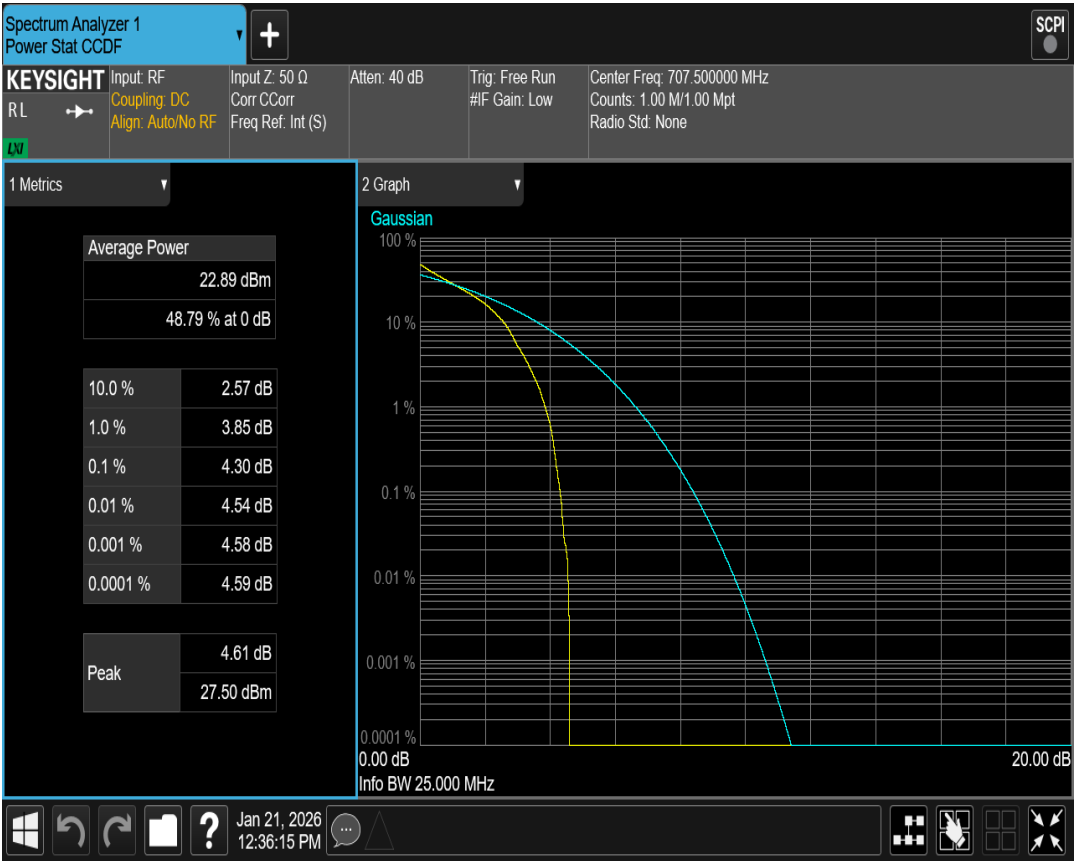
### 3 Peak-to-Average Ratio

| Band   | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Size | RB<br>Position | Modulation | Result<br>(dB) | high<br>Limit<br>(dB) | Verdict |
|--------|--------------------|---------------|------------|----------------|------------|----------------|-----------------------|---------|
| Band12 | 1.4                | 23095         | 1          | #0             | QPSK       | 4.30           | 13                    | PASS    |
| Band12 | 1.4                | 23095         | 1          | #0             | QAM16      | 4.87           | 13                    | PASS    |
| Band12 | 3                  | 23095         | 1          | #0             | QPSK       | 4.36           | 13                    | PASS    |
| Band12 | 3                  | 23095         | 1          | #0             | QAM16      | 5.14           | 13                    | PASS    |
| Band12 | 5                  | 23095         | 1          | #0             | QPSK       | 4.47           | 13                    | PASS    |
| Band12 | 5                  | 23095         | 1          | #0             | QAM16      | 5.37           | 13                    | PASS    |
| Band12 | 10                 | 23095         | 1          | #0             | QPSK       | 4.54           | 13                    | PASS    |
| Band12 | 10                 | 23095         | 1          | #0             | QAM16      | 5.31           | 13                    | PASS    |

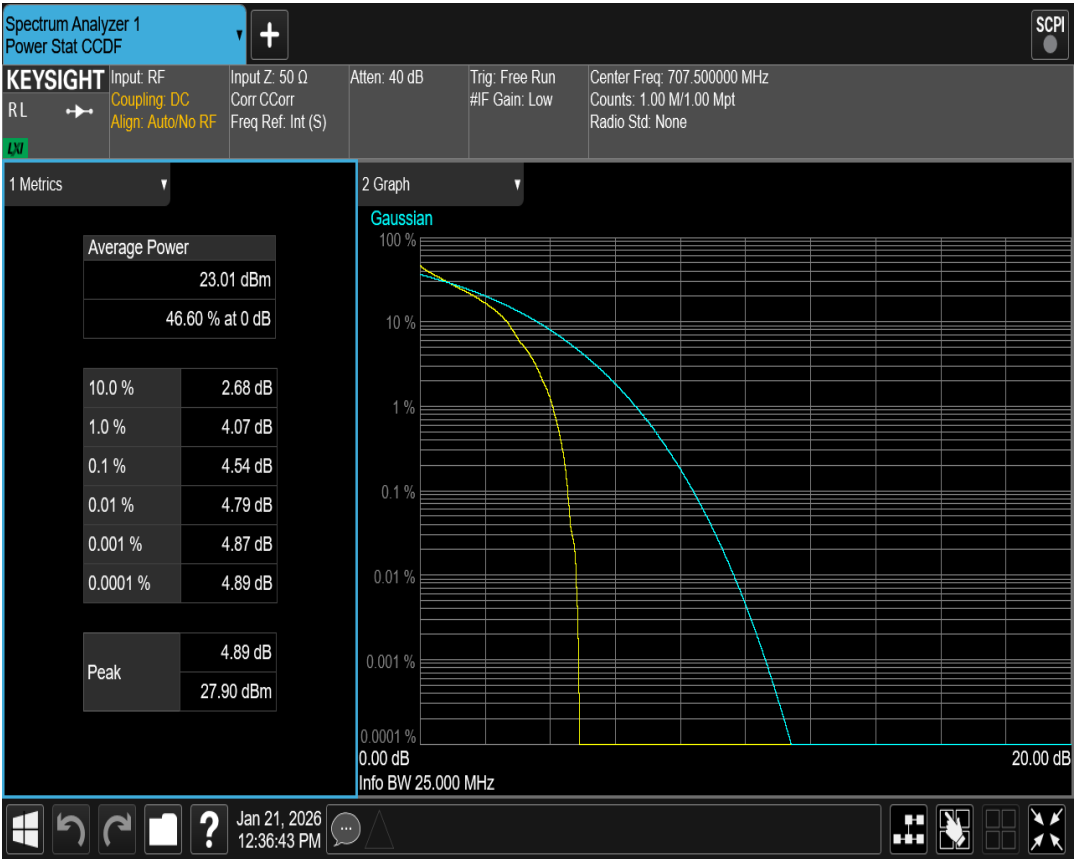
**Band12 QAM16 BW=5MHz Channel=23095 RB Size=1 Position=#0**



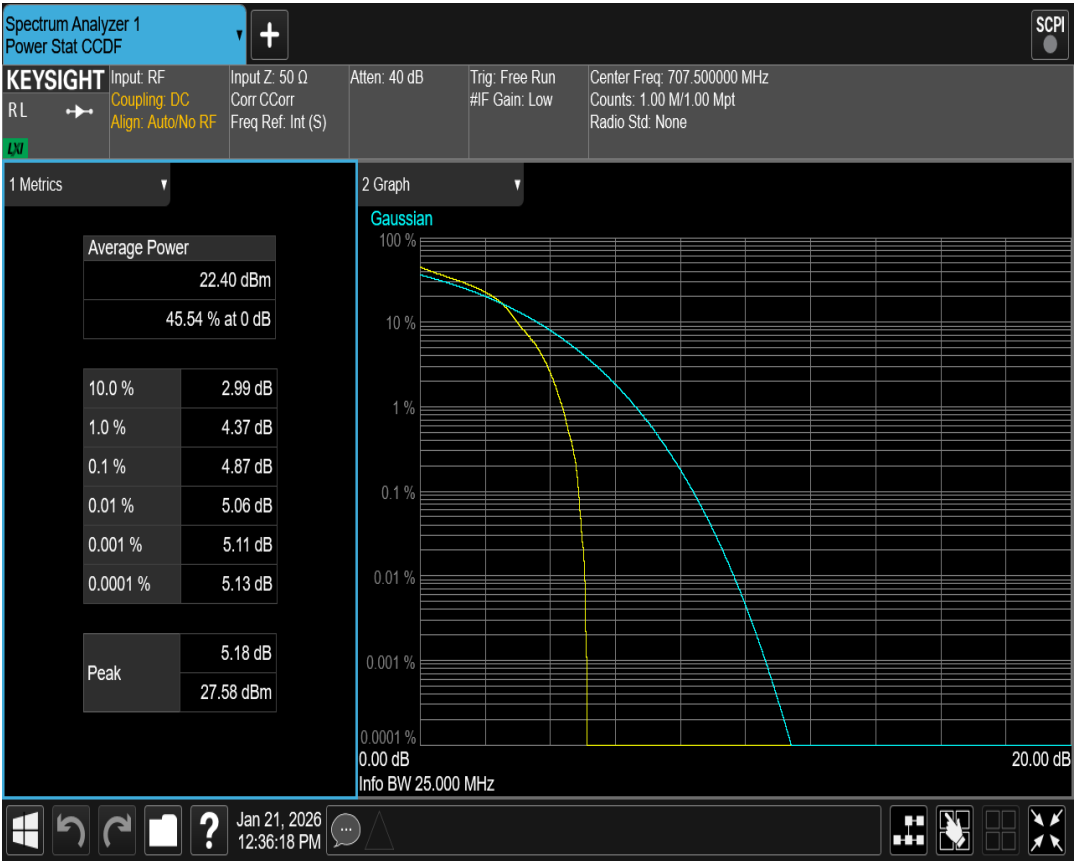
**Band12 QPSK BW=1.4MHz Channel=23095 RB Size=1 Position=#0**



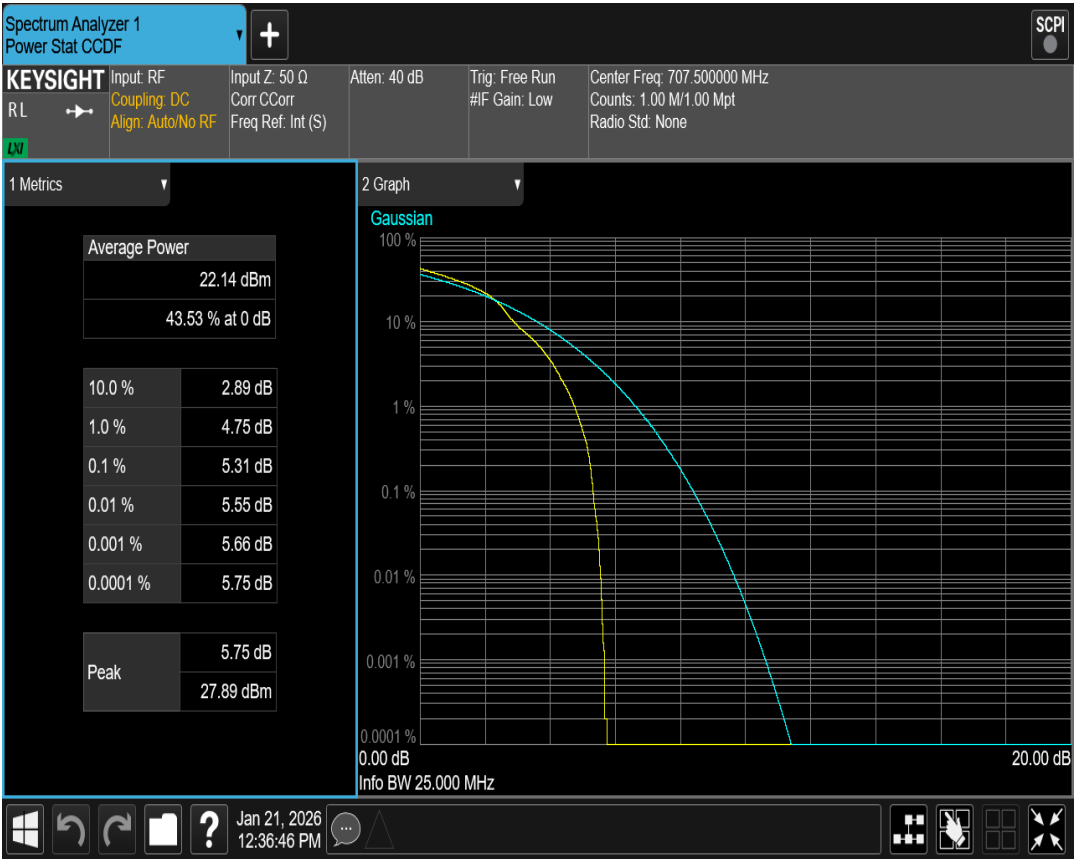
Band12 QPSK BW=10MHz Channel=23095 RB Size=1 Position=#0



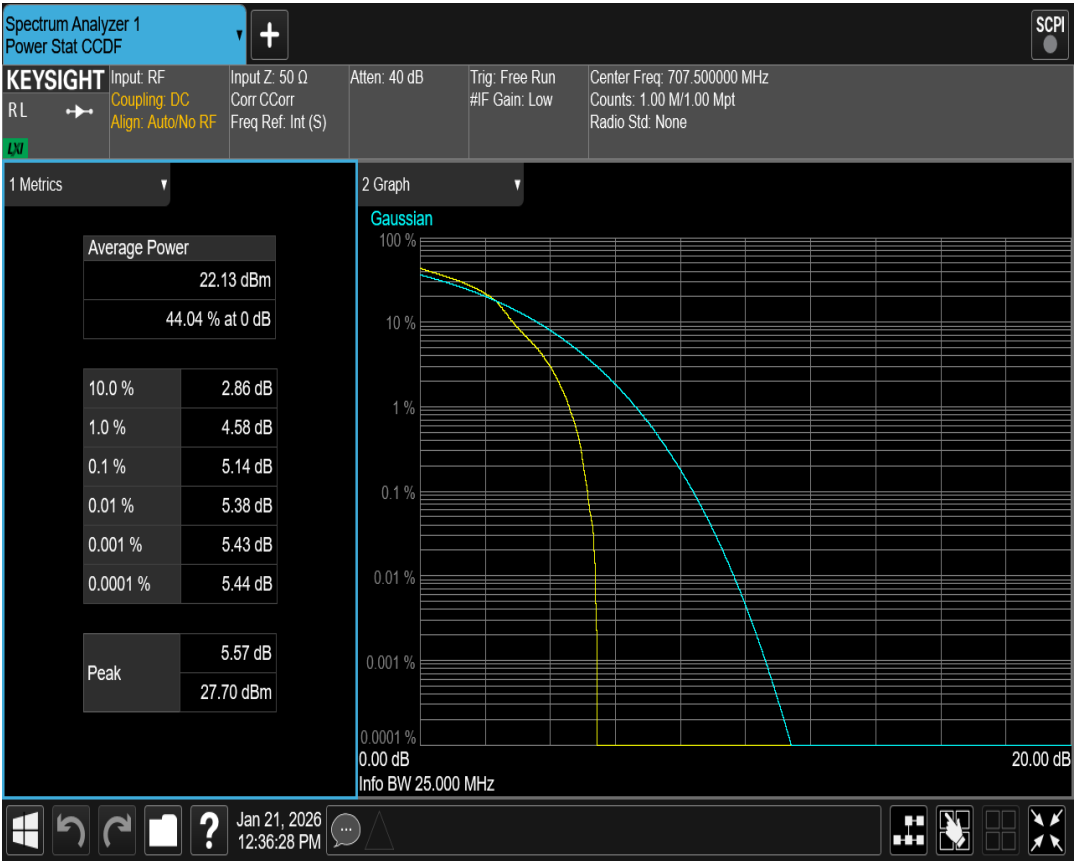
Band12 QAM16 BW=1.4MHz Channel=23095 RB Size=1 Position=#0



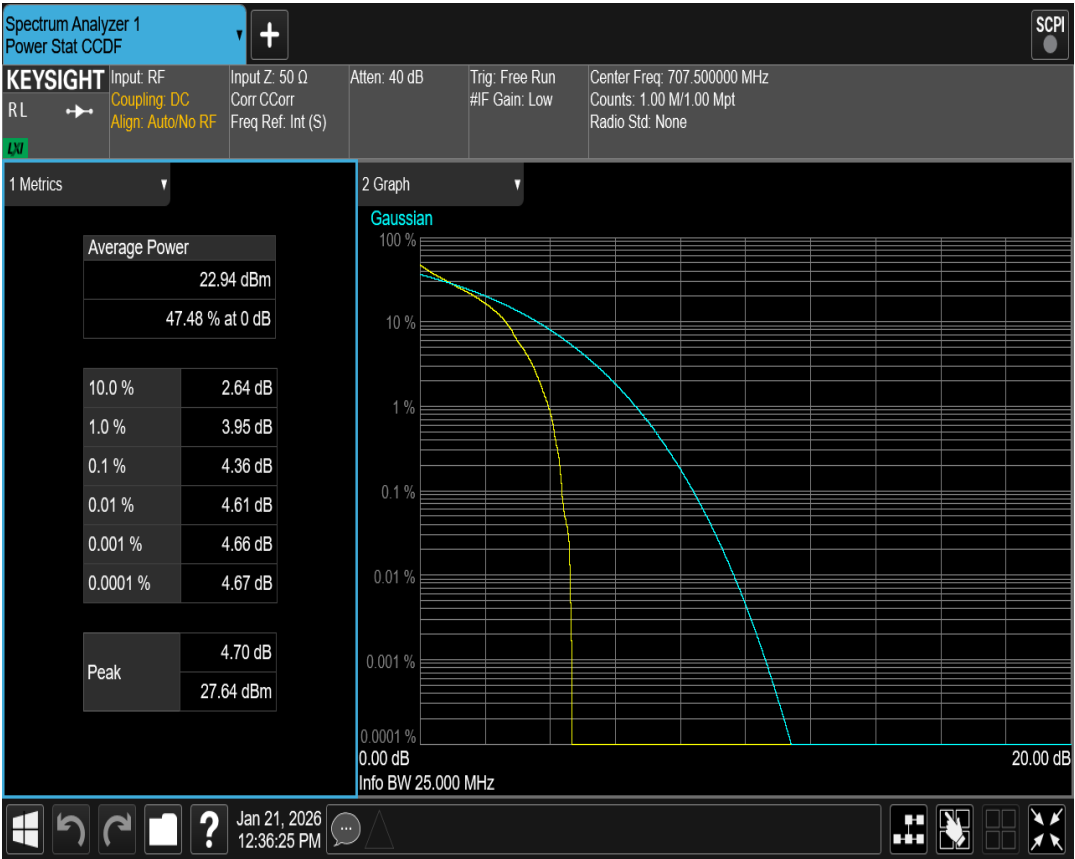
Band12 QAM16 BW=10MHz Channel=23095 RB Size=1 Position=#0



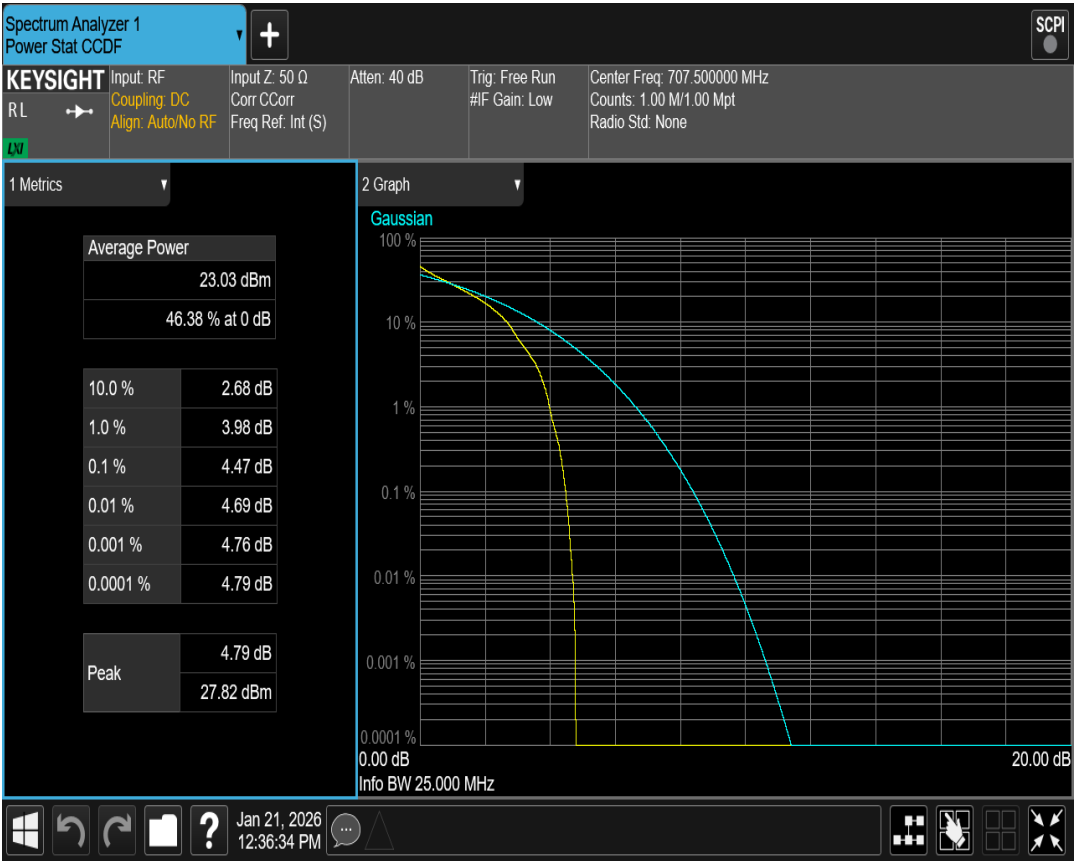
Band12 QAM16 BW=3MHz Channel=23095 RB Size=1 Position=#0



Band12 QPSK BW=3MHz Channel=23095 RB Size=1 Position=#0



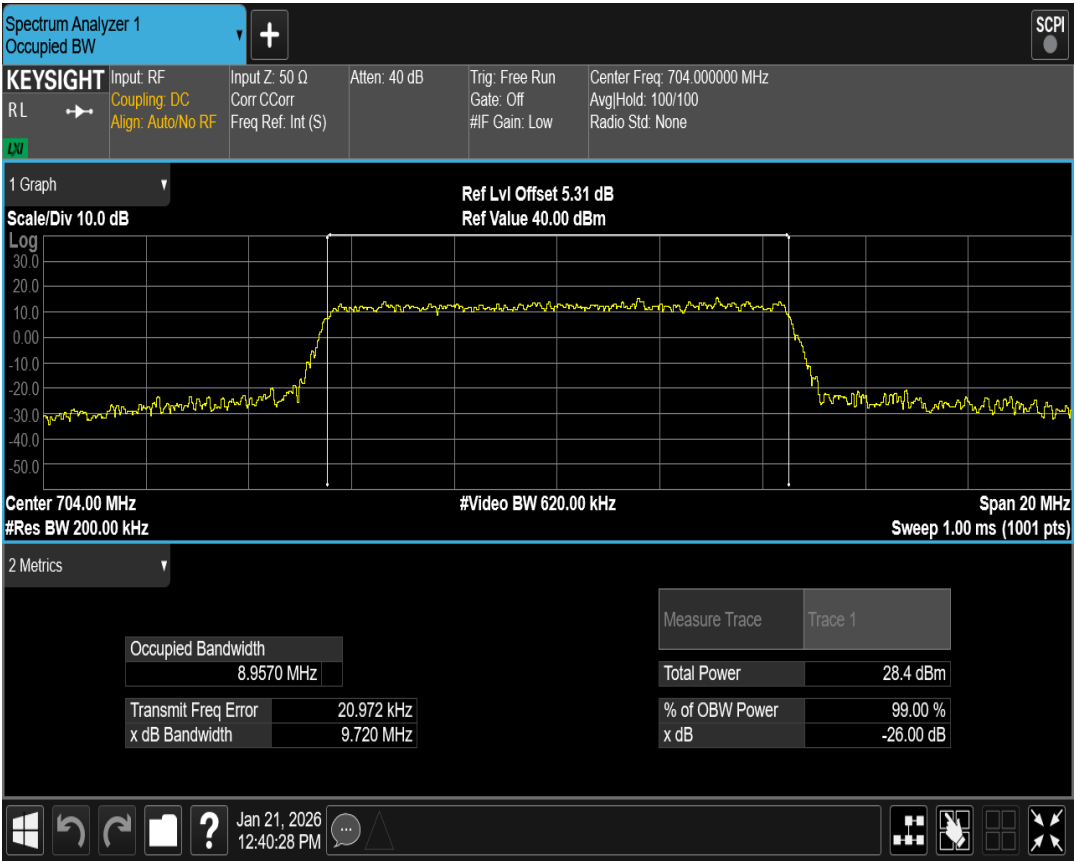
Band12 QPSK BW=5MHz Channel=23095 RB Size=1 Position=#0



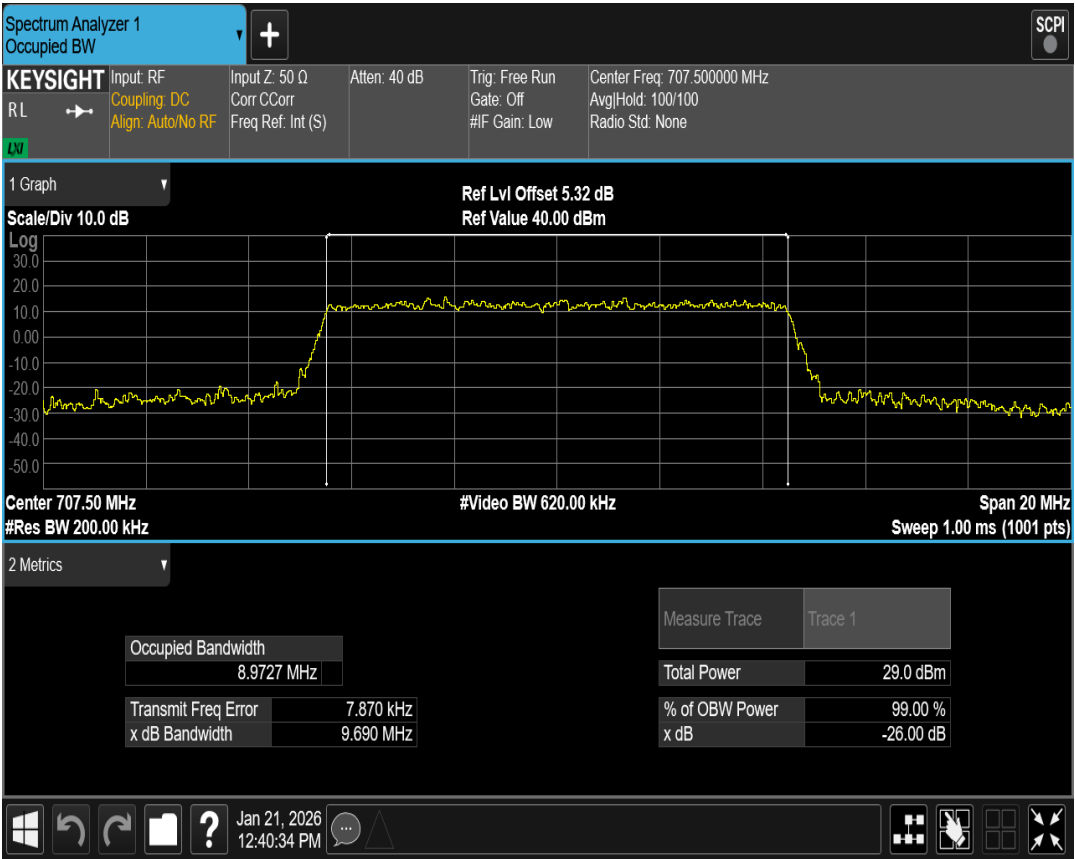
## 4 Occupied bandwidth

| <b>Band</b> | <b>Bandwidth<br/>(MHz)</b> | <b>UL<br/>Channel</b> | <b>RB<br/>Size</b> | <b>RB<br/>Position</b> | <b>Modulation</b> | <b>99%<br/>OBW<br/>(MHz)</b> | <b>-26dB<br/>EBW<br/>(MHz)</b> | <b>Verdict</b> |
|-------------|----------------------------|-----------------------|--------------------|------------------------|-------------------|------------------------------|--------------------------------|----------------|
| Band12      | 1.4                        | 23017                 | 6                  | #0                     | QPSK              | 1.087                        | 1.248                          | PASS           |
| Band12      | 1.4                        | 23017                 | 6                  | #0                     | QAM16             | 1.105                        | 1.252                          | PASS           |
| Band12      | 1.4                        | 23095                 | 6                  | #0                     | QPSK              | 1.098                        | 1.244                          | PASS           |
| Band12      | 1.4                        | 23095                 | 6                  | #0                     | QAM16             | 1.096                        | 1.227                          | PASS           |
| Band12      | 1.4                        | 23173                 | 6                  | #0                     | QPSK              | 1.094                        | 1.251                          | PASS           |
| Band12      | 1.4                        | 23173                 | 6                  | #0                     | QAM16             | 1.096                        | 1.236                          | PASS           |
| Band12      | 3                          | 23025                 | 15                 | #0                     | QPSK              | 2.707                        | 3.036                          | PASS           |
| Band12      | 3                          | 23025                 | 15                 | #0                     | QAM16             | 2.716                        | 3.026                          | PASS           |
| Band12      | 3                          | 23095                 | 15                 | #0                     | QPSK              | 2.694                        | 3.021                          | PASS           |
| Band12      | 3                          | 23095                 | 15                 | #0                     | QAM16             | 2.707                        | 3.029                          | PASS           |
| Band12      | 3                          | 23165                 | 15                 | #0                     | QPSK              | 2.700                        | 3.021                          | PASS           |
| Band12      | 3                          | 23165                 | 15                 | #0                     | QAM16             | 2.713                        | 3.053                          | PASS           |
| Band12      | 5                          | 23035                 | 25                 | #0                     | QPSK              | 4.513                        | 4.955                          | PASS           |
| Band12      | 5                          | 23035                 | 25                 | #0                     | QAM16             | 4.515                        | 4.926                          | PASS           |
| Band12      | 5                          | 23095                 | 25                 | #0                     | QPSK              | 4.524                        | 4.951                          | PASS           |
| Band12      | 5                          | 23095                 | 25                 | #0                     | QAM16             | 4.502                        | 4.973                          | PASS           |
| Band12      | 5                          | 23155                 | 25                 | #0                     | QPSK              | 4.502                        | 4.910                          | PASS           |
| Band12      | 5                          | 23155                 | 25                 | #0                     | QAM16             | 4.501                        | 4.932                          | PASS           |
| Band12      | 10                         | 23060                 | 50                 | #0                     | QPSK              | 8.998                        | 9.826                          | PASS           |
| Band12      | 10                         | 23060                 | 50                 | #0                     | QAM16             | 8.957                        | 9.720                          | PASS           |
| Band12      | 10                         | 23095                 | 50                 | #0                     | QPSK              | 8.983                        | 9.826                          | PASS           |
| Band12      | 10                         | 23095                 | 50                 | #0                     | QAM16             | 8.973                        | 9.690                          | PASS           |
| Band12      | 10                         | 23130                 | 50                 | #0                     | QPSK              | 8.973                        | 9.856                          | PASS           |
| Band12      | 10                         | 23130                 | 50                 | #0                     | QAM16             | 8.986                        | 9.954                          | PASS           |

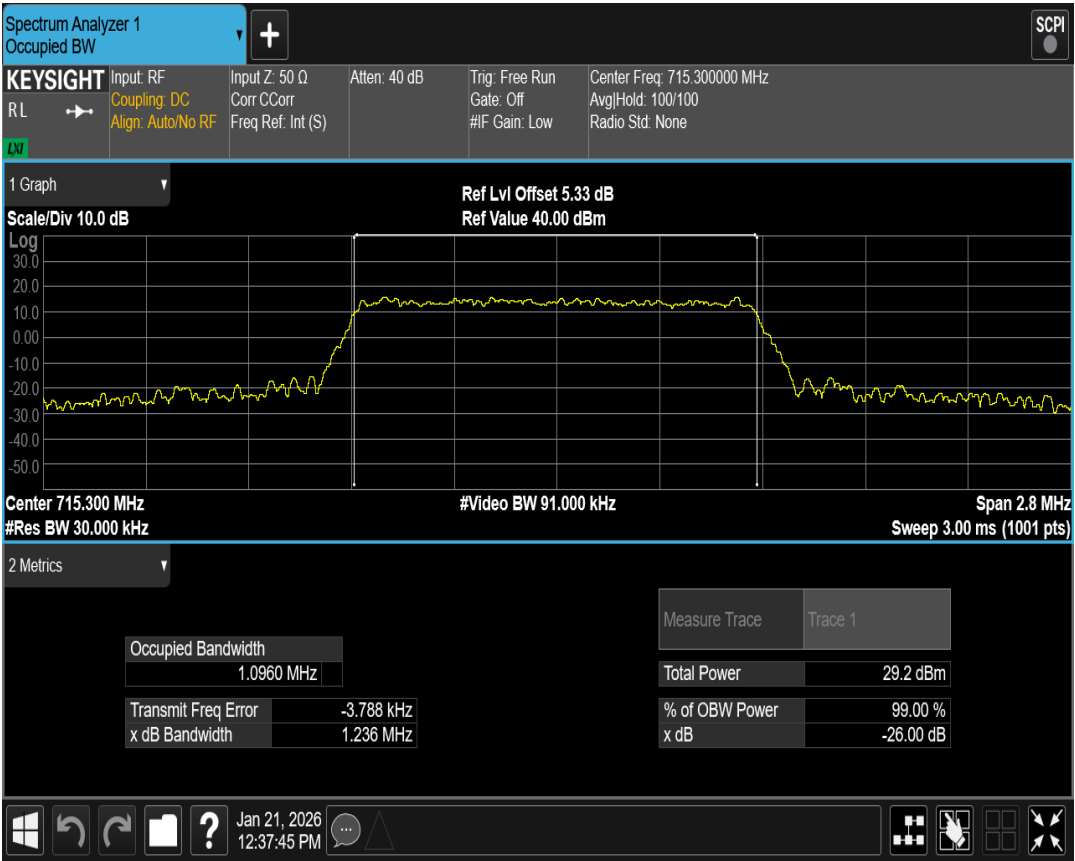
**Band12 QAM16 BW=10MHz Channel=23060 RB Size=50 Position=#0**



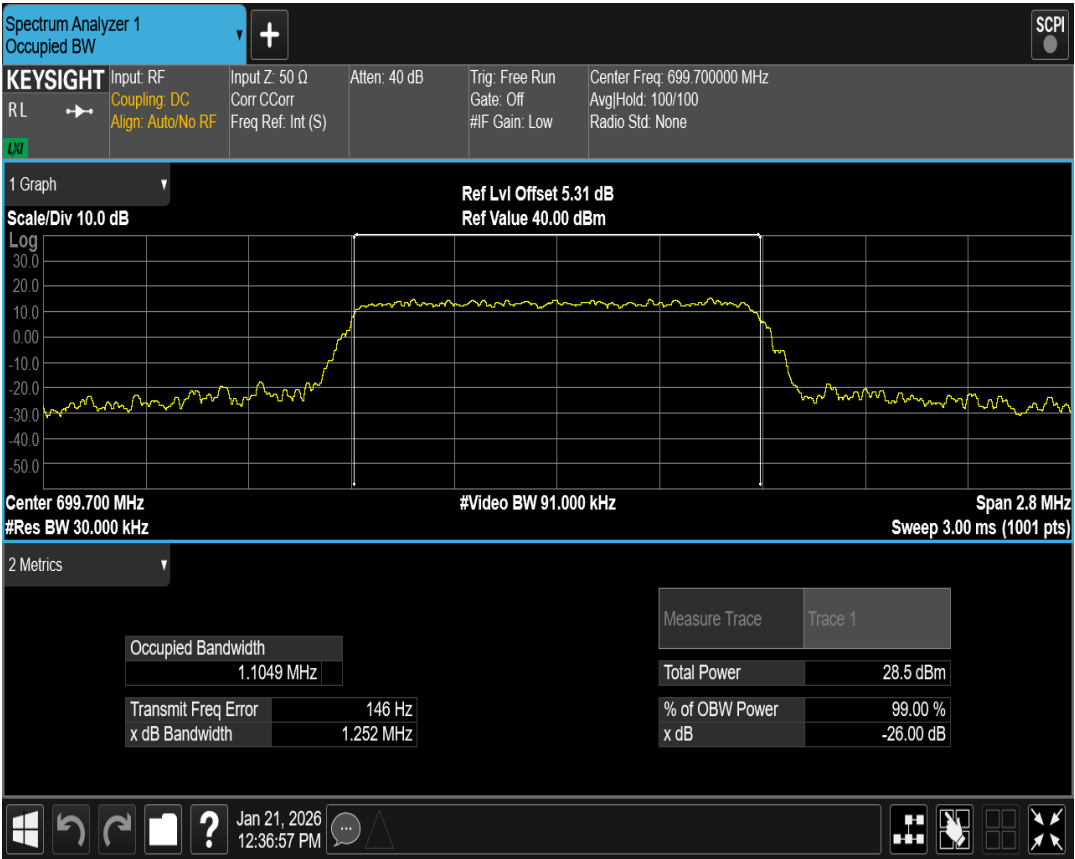
Band12 QAM16 BW=10MHz Channel=23095 RB Size=50 Position=#0



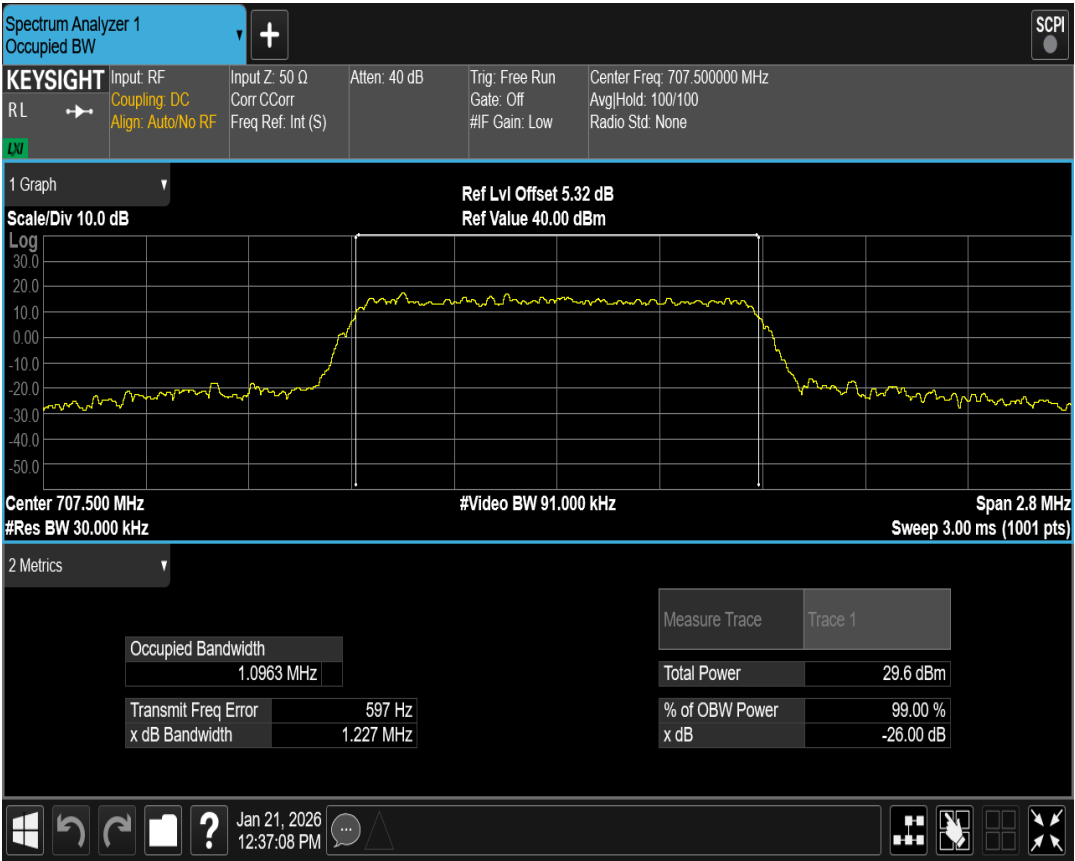
Band12 QAM16 BW=1.4MHz Channel=23173 RB Size=6 Position=#0



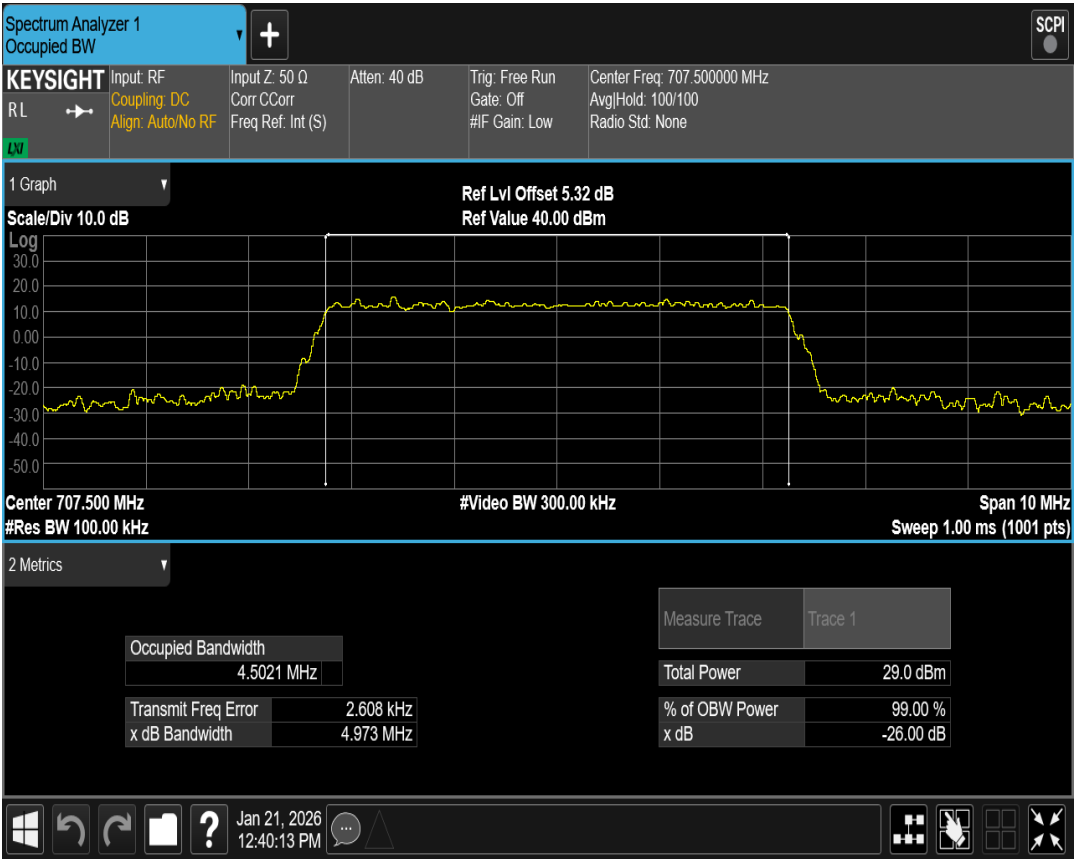
Band12 QAM16 BW=1.4MHz Channel=23017 RB Size=6 Position=#0



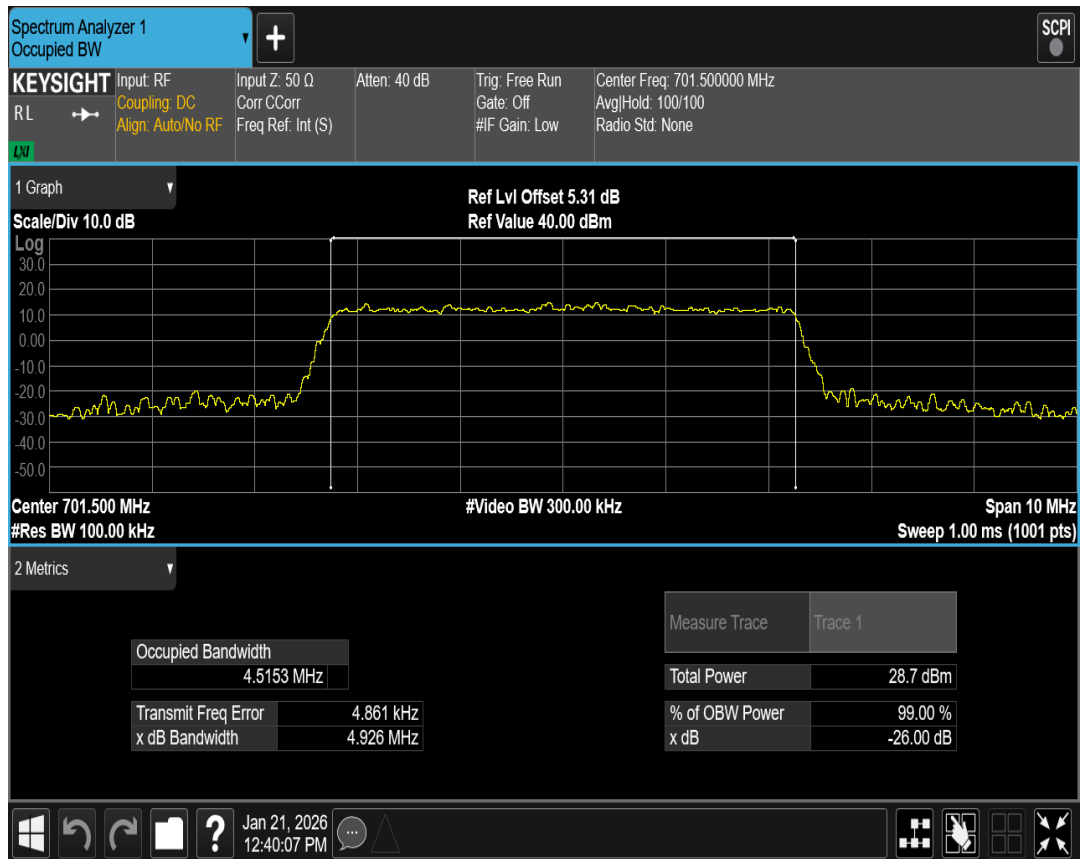
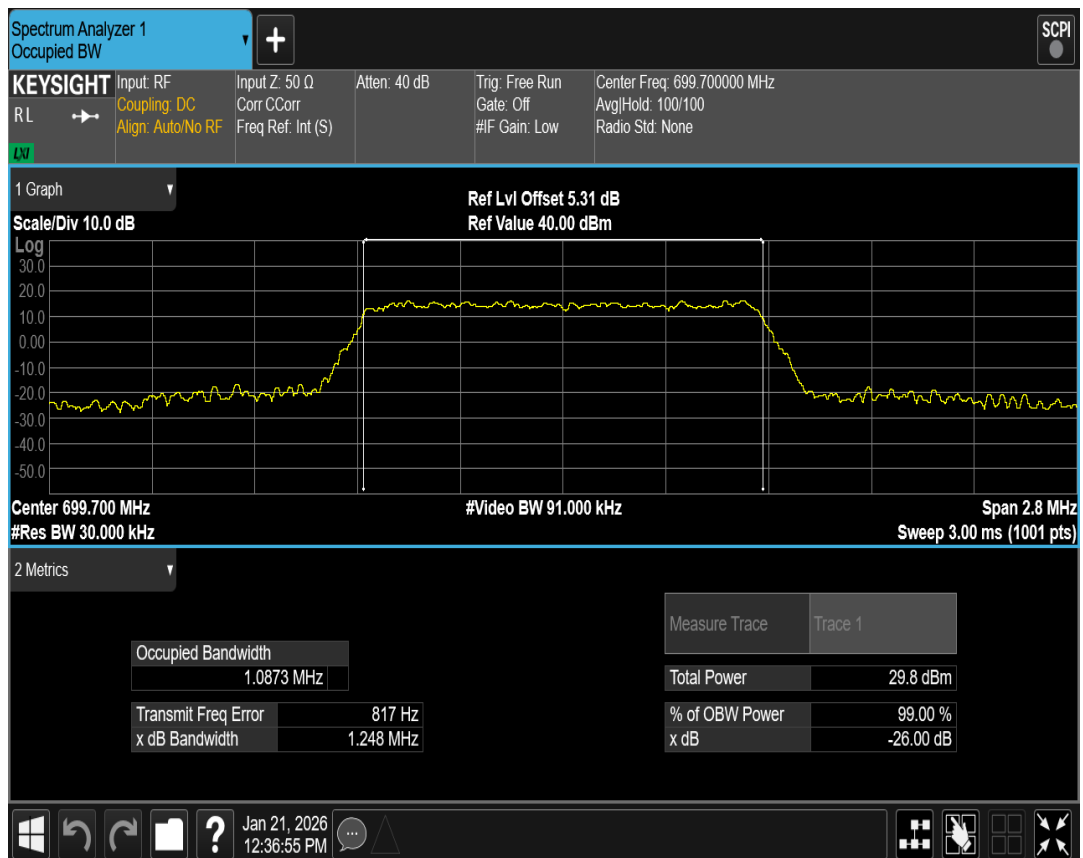
Band12 QAM16 BW=1.4MHz Channel=23095 RB Size=6 Position=#0

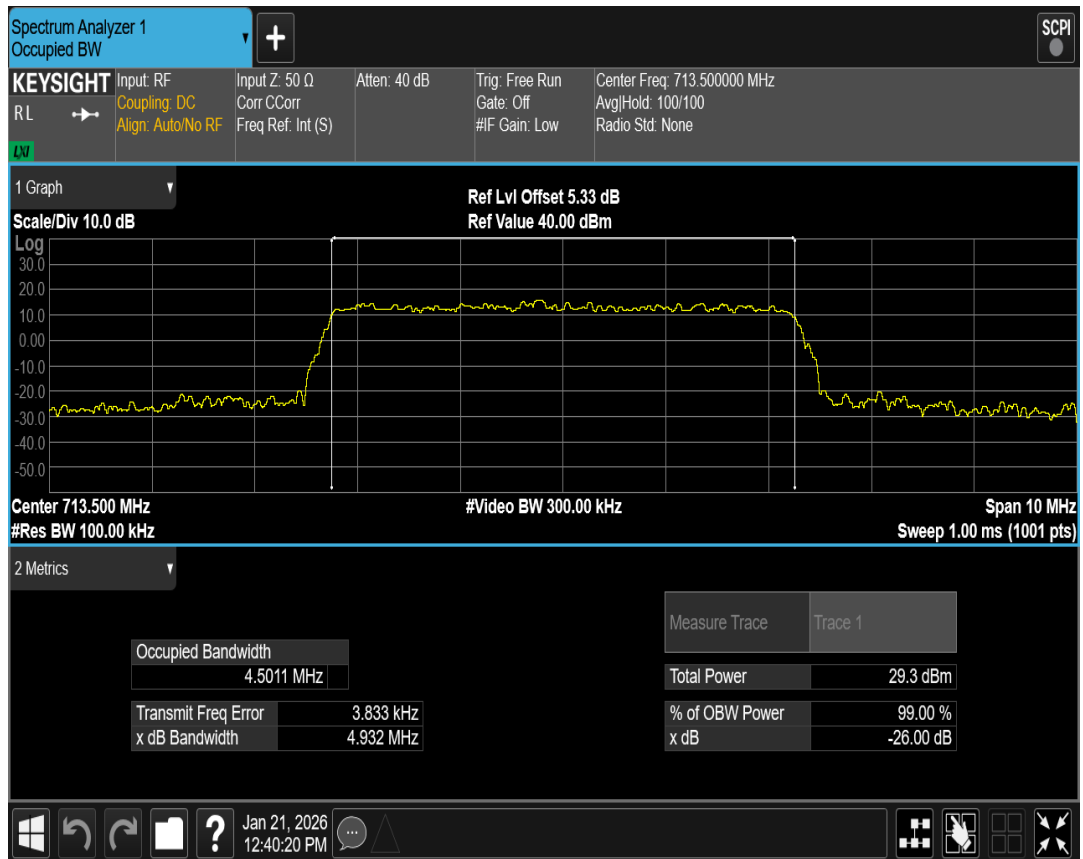
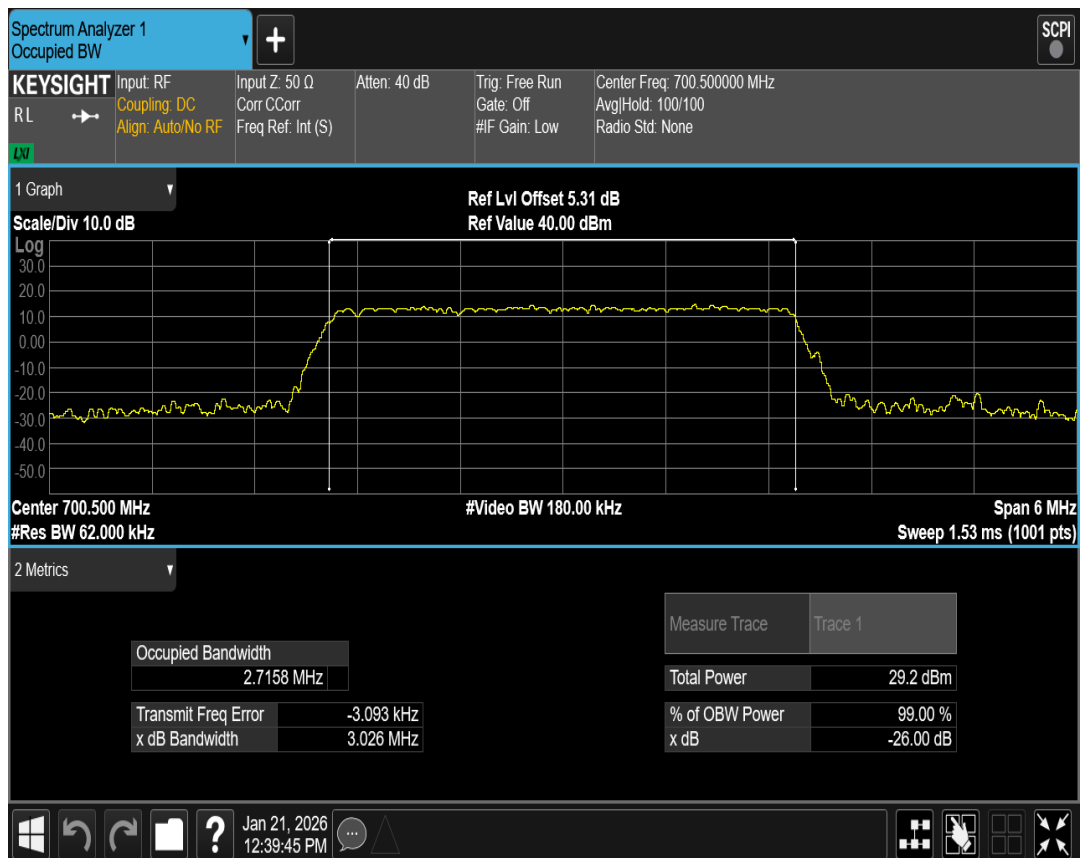


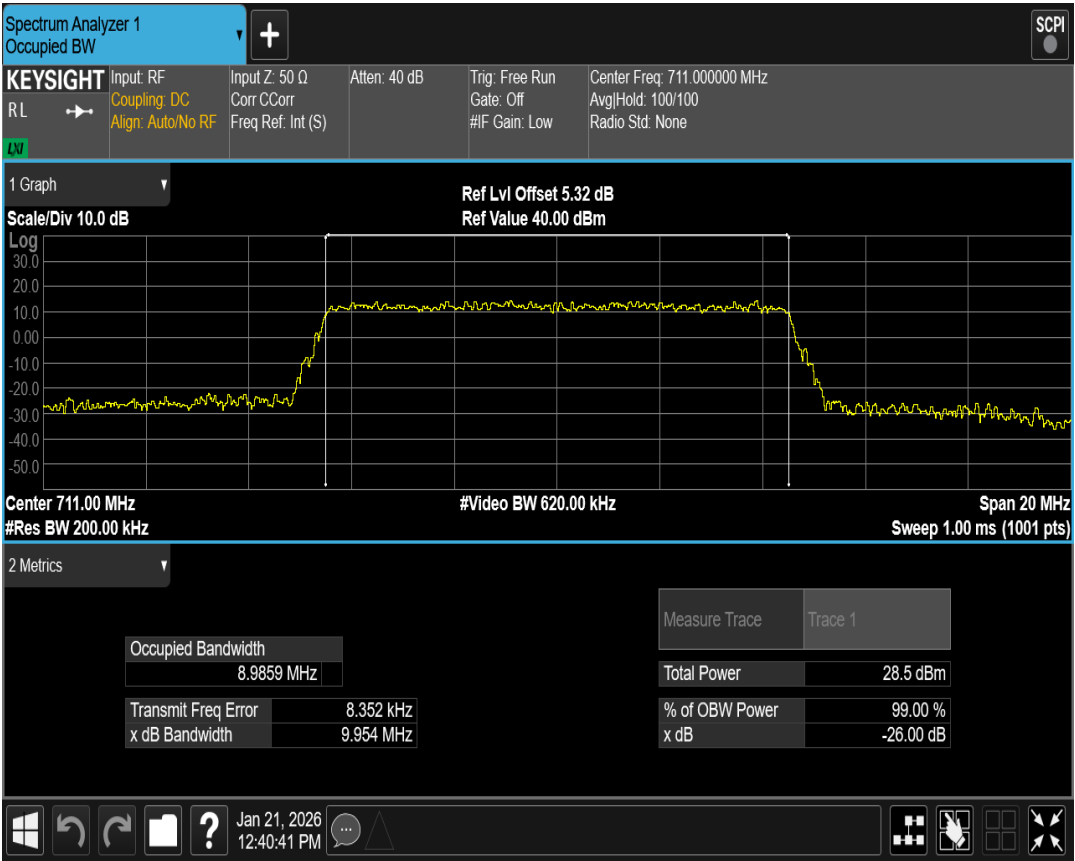
Band12 QAM16 BW=5MHz Channel=23095 RB Size=25 Position=#0



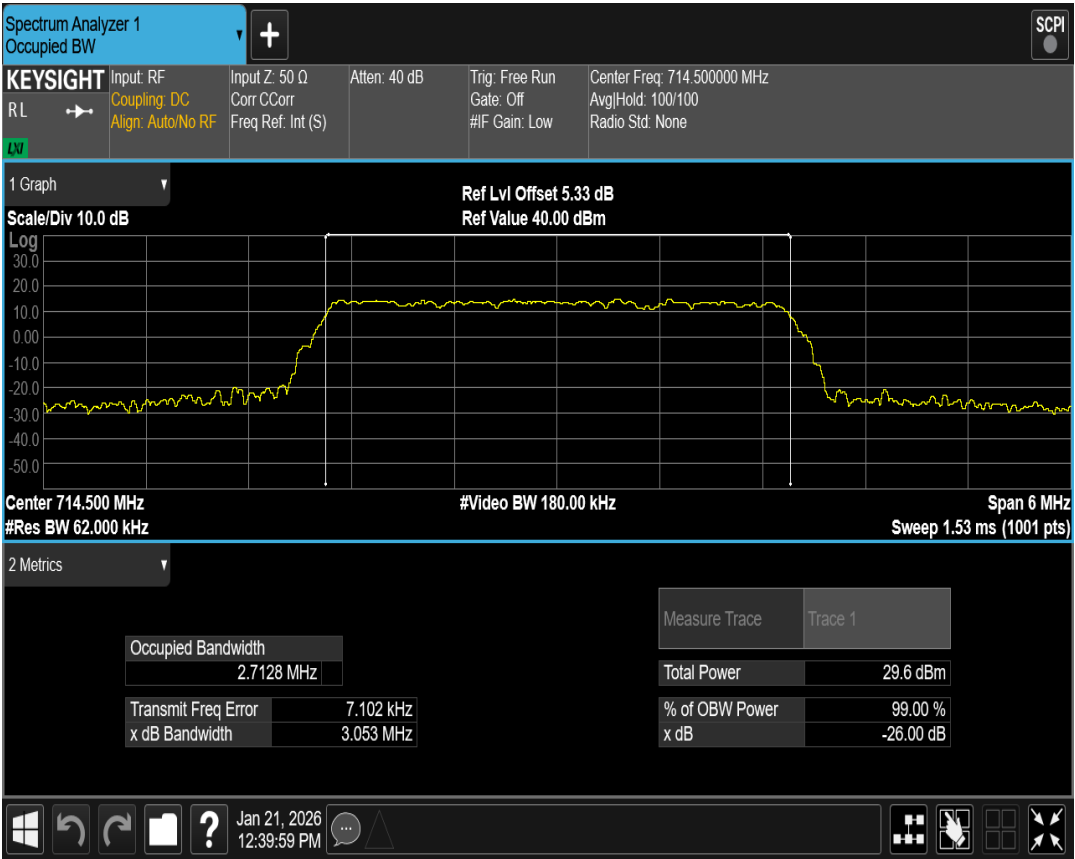
Band12 QAM16 BW=5MHz Channel=23035 RB Size=25 Position=#0

**Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0****Band12 QAM16 BW=5MHz Channel=23155 RB Size=25 Position=#0**

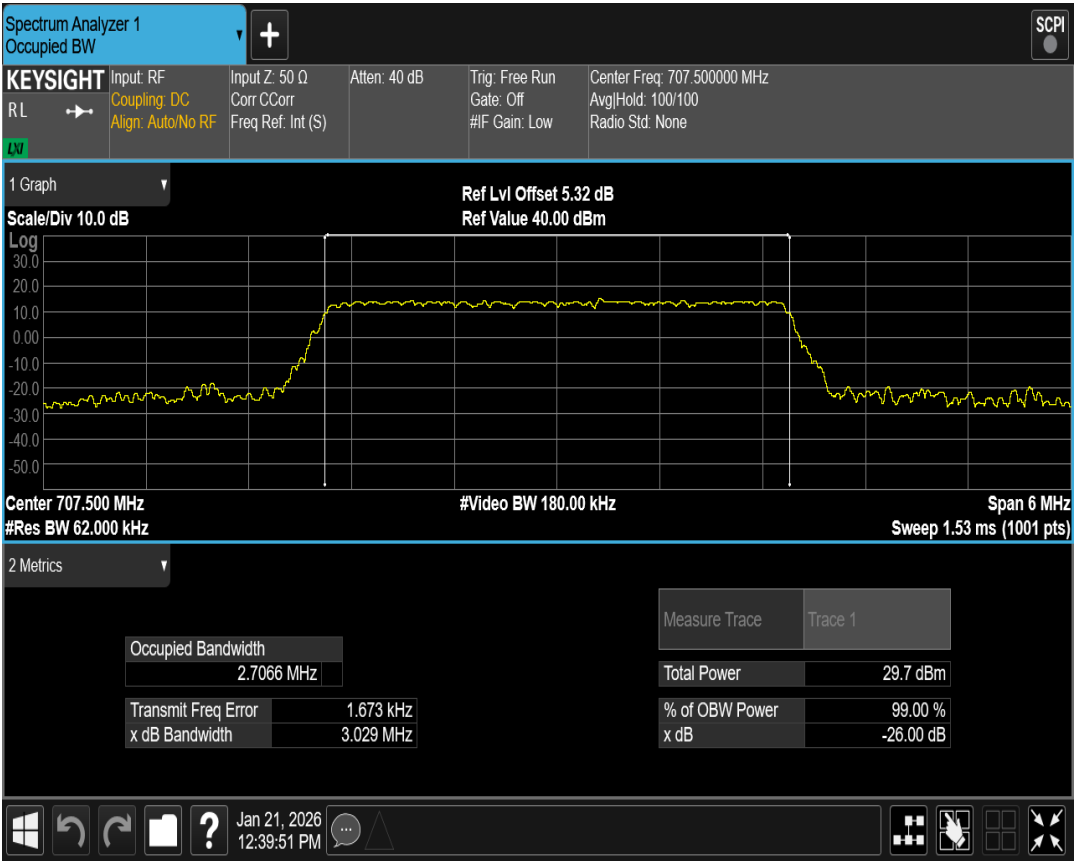
**Band12 QAM16 BW=3MHz Channel=23025 RB Size=15 Position=#0****Band12 QAM16 BW=10MHz Channel=23130 RB Size=50 Position=#0**



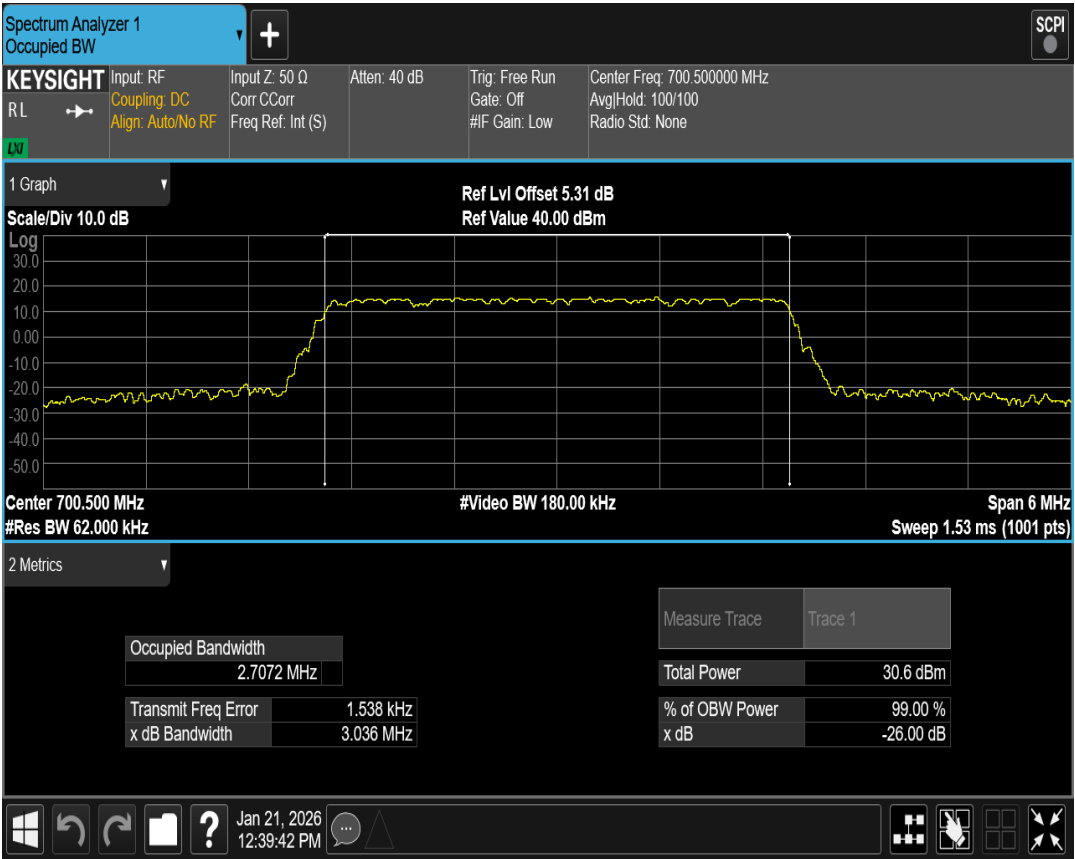
Band12 QAM16 BW=3MHz Channel=23165 RB Size=15 Position=#0



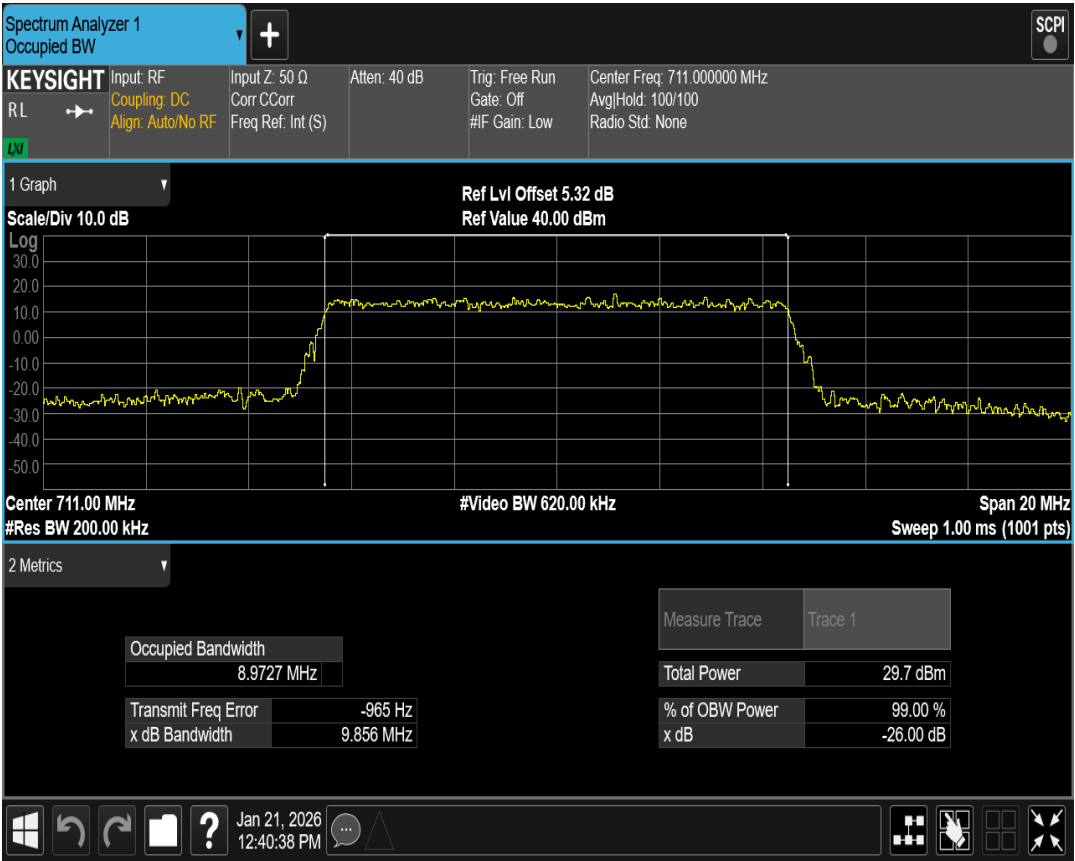
Band12 QAM16 BW=3MHz Channel=23095 RB Size=15 Position=#0



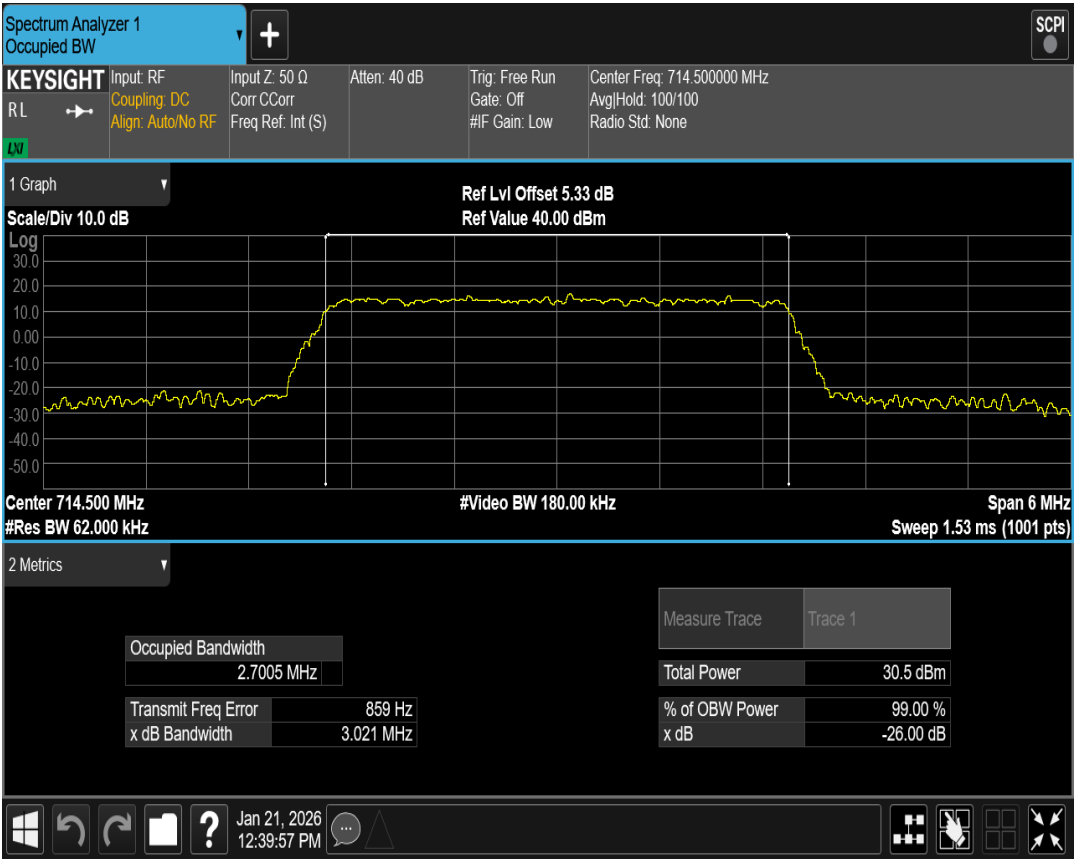
Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0



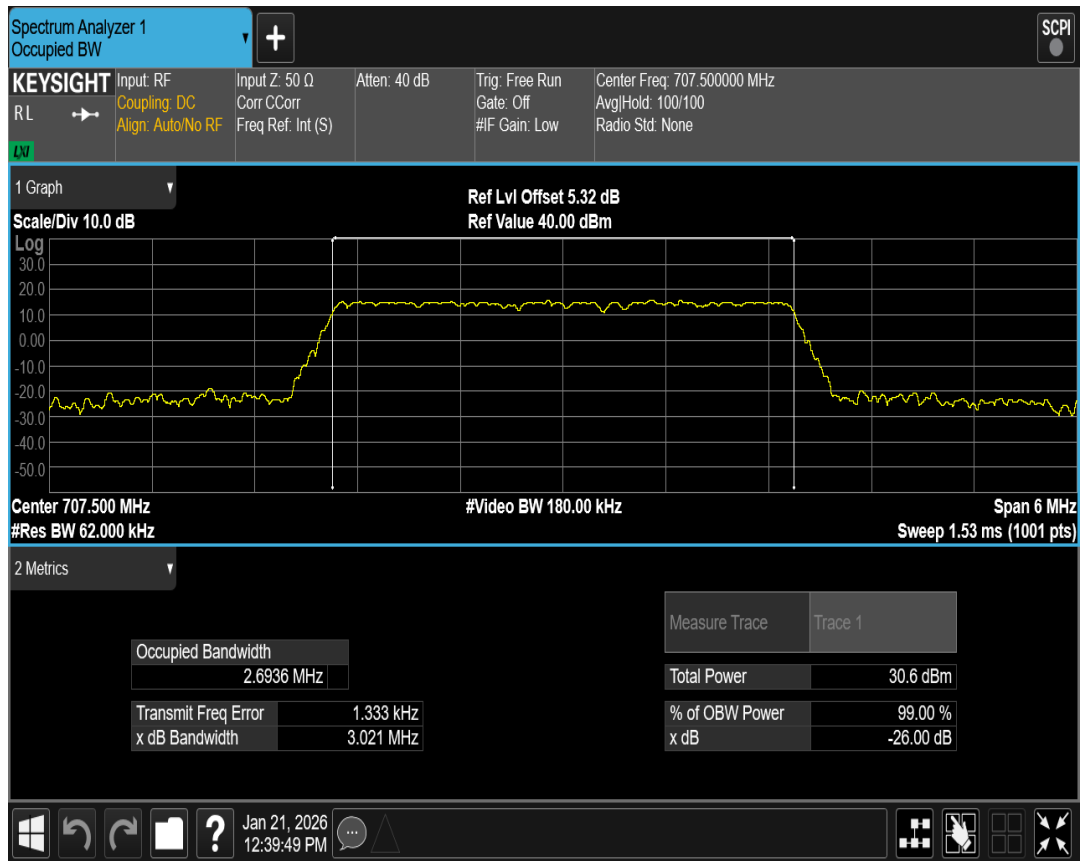
Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0



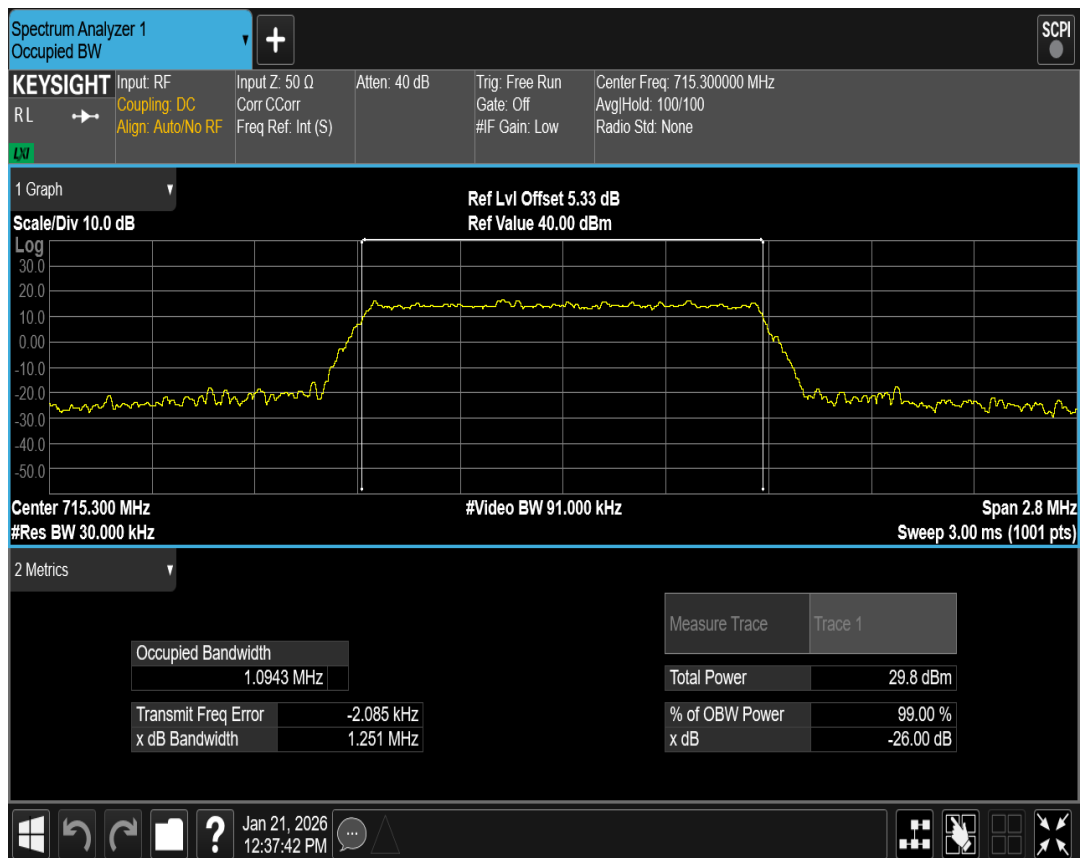
Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0



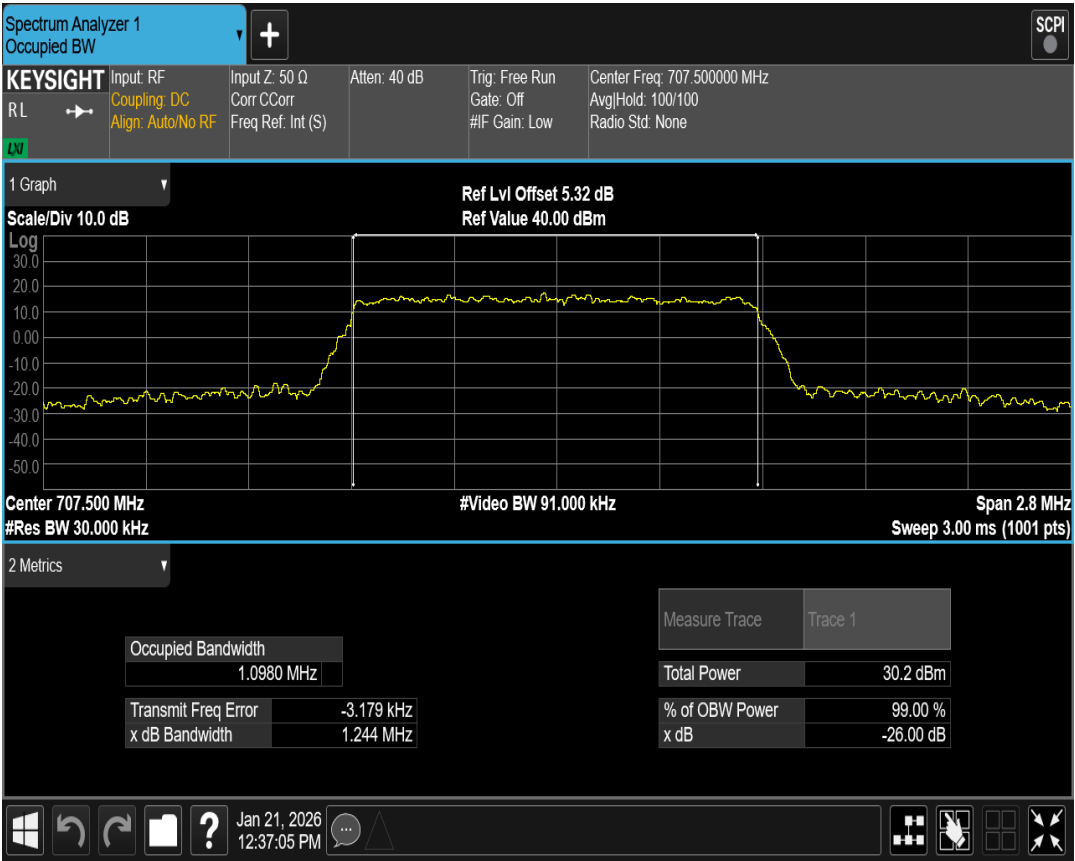
Band12 QPSK BW=3MHz Channel=23095 RB Size=15 Position=#0



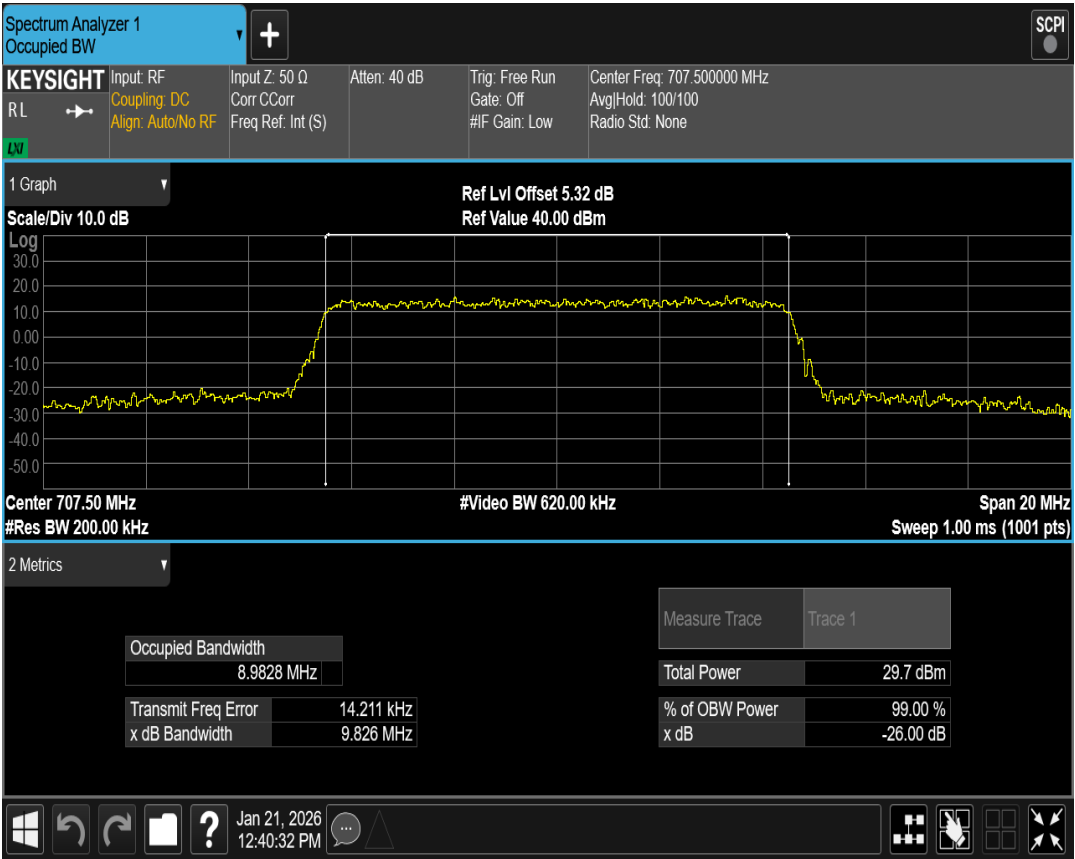
Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0



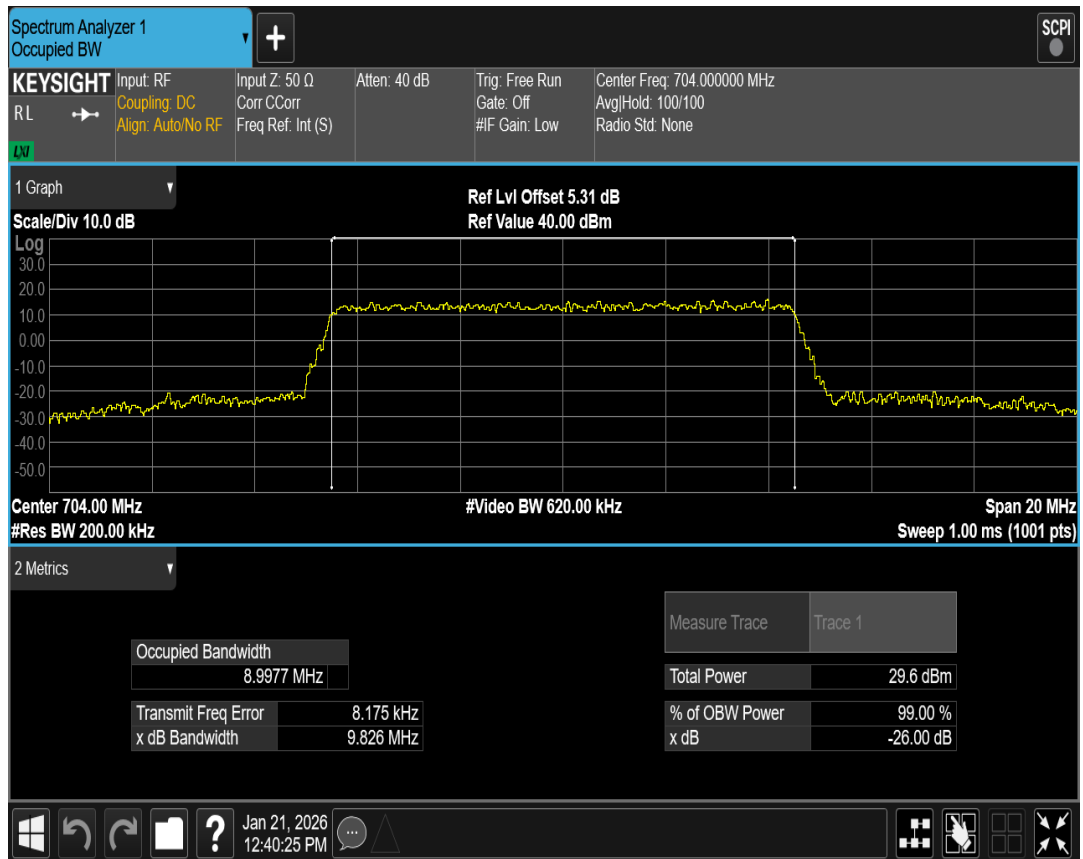
Band12 QPSK BW=1.4MHz Channel=23095 RB Size=6 Position=#0



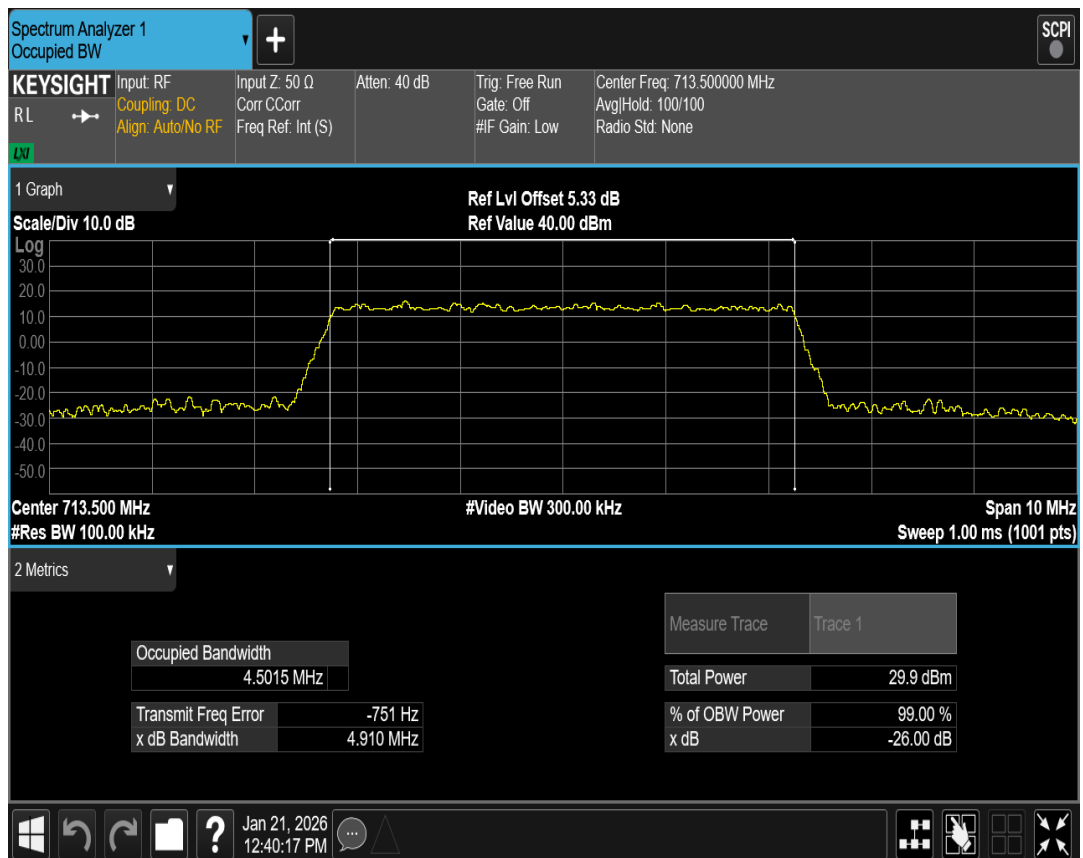
Band12 QPSK BW=10MHz Channel=23095 RB Size=50 Position=#0



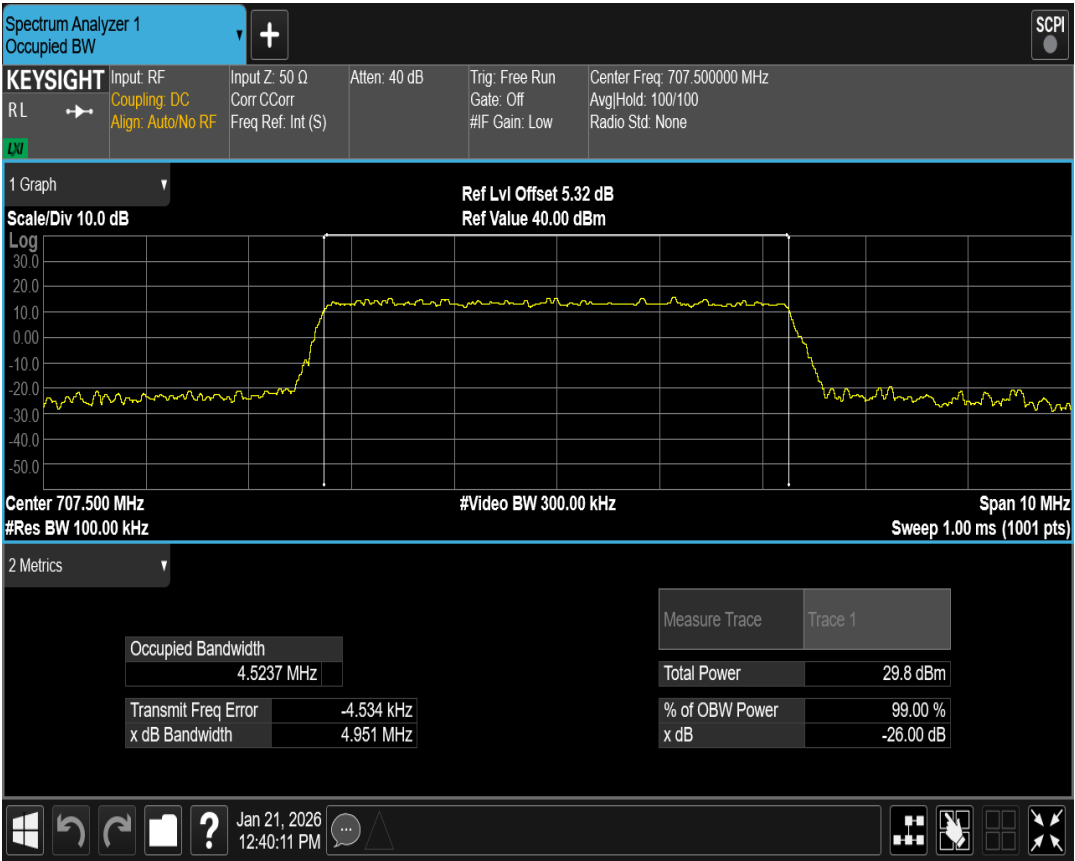
Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0



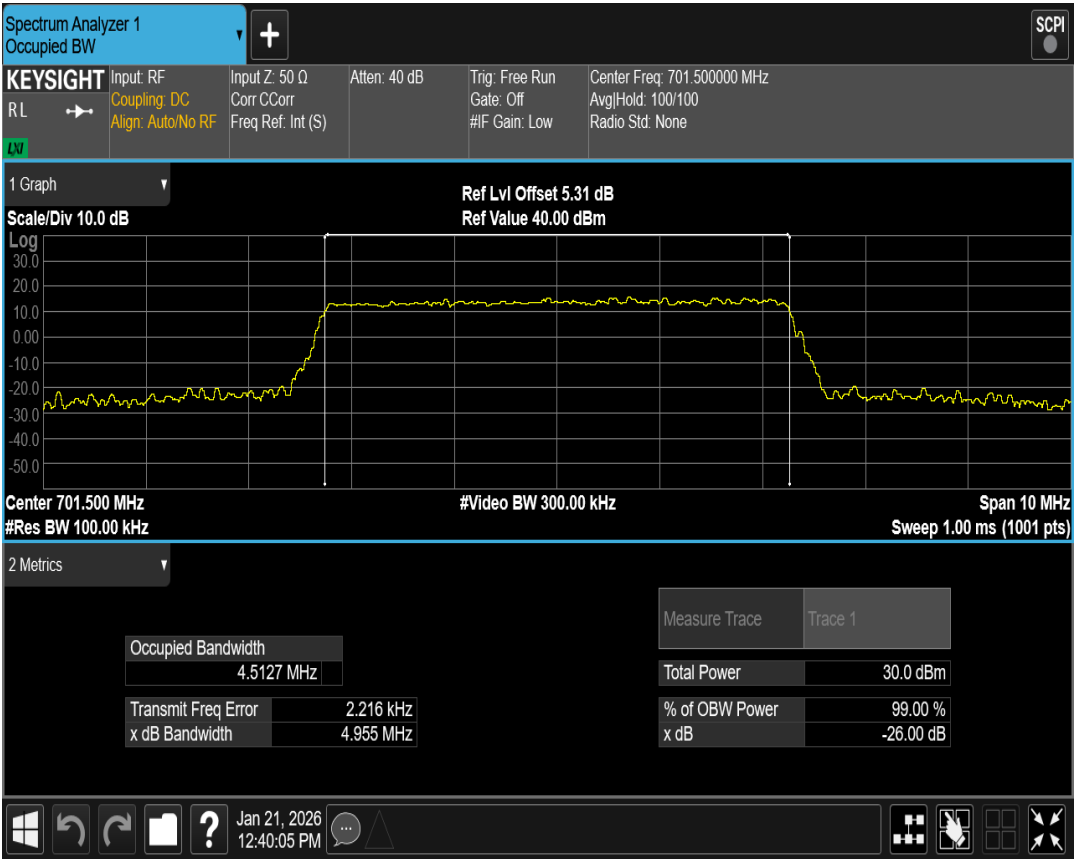
Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0



Band12 QPSK BW=5MHz Channel=23095 RB Size=25 Position=#0



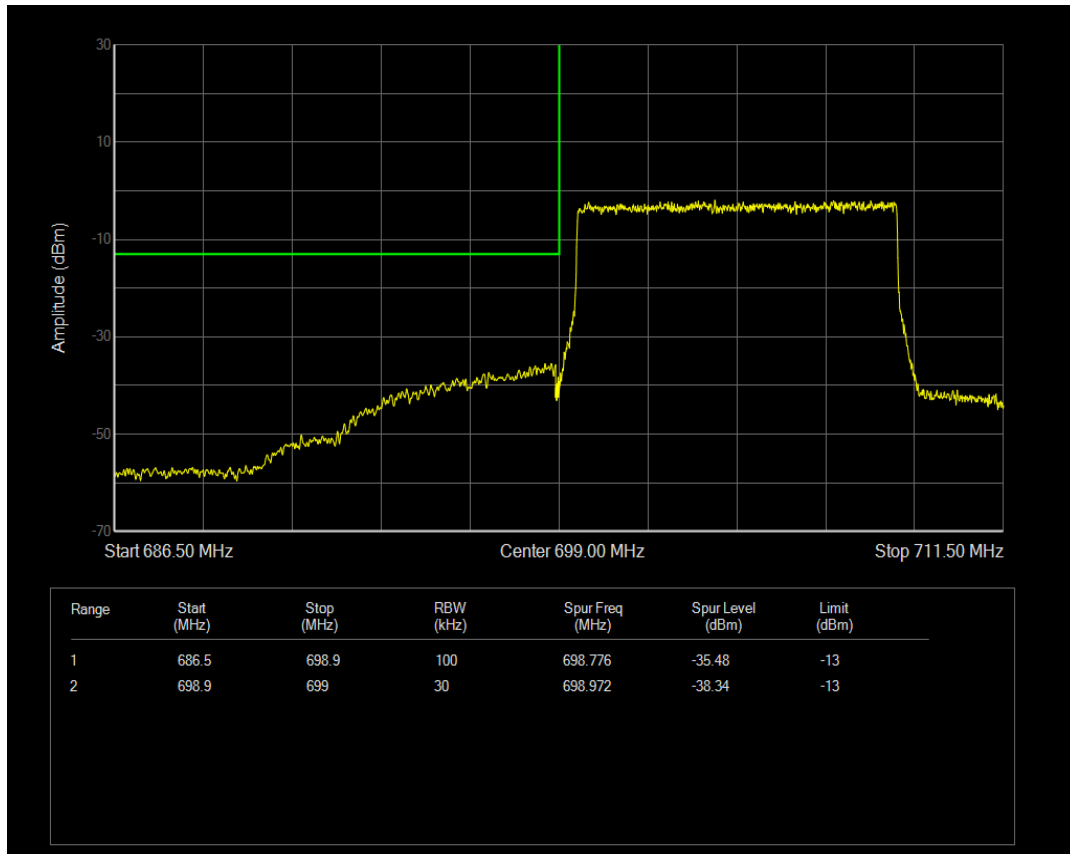
Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0



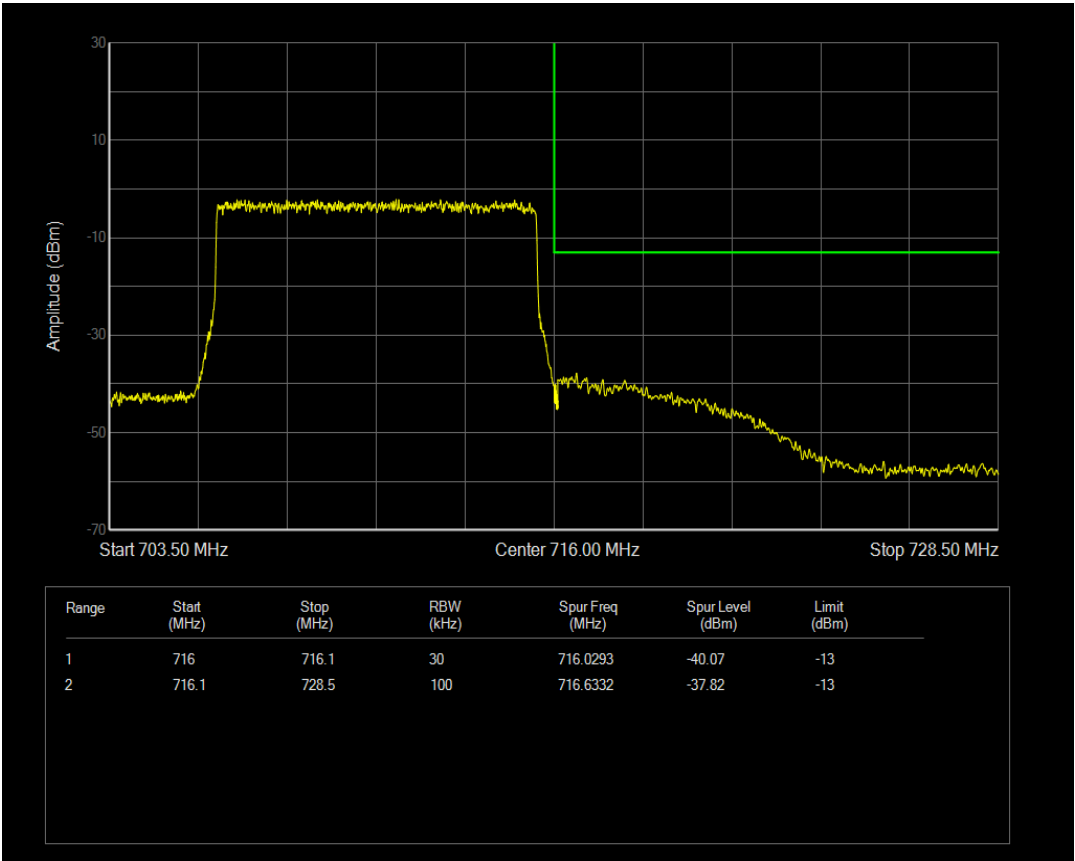
## 5 Band edge

| Band   | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|--------|-----------------|------------|---------|-------------|------------|-----------------|------------------|-------------|---------|
| Band12 | 1.4             | 23017      | 6       | #0          | QPSK       | 698.76          | -24.24           | -13         | PASS    |
| Band12 | 1.4             | 23017      | 6       | #0          | QAM16      | 698.82          | -26.65           | -13         | PASS    |
| Band12 | 1.4             | 23173      | 6       | #0          | QPSK       | 716.13          | -24.50           | -13         | PASS    |
| Band12 | 1.4             | 23173      | 6       | #0          | QAM16      | 716.11          | -22.07           | -13         | PASS    |
| Band12 | 3               | 23025      | 15      | #0          | QPSK       | 698.99          | -23.26           | -13         | PASS    |
| Band12 | 3               | 23025      | 15      | #0          | QAM16      | 699.00          | -25.78           | -13         | PASS    |
| Band12 | 3               | 23165      | 15      | #0          | QPSK       | 716.00          | -25.62           | -13         | PASS    |
| Band12 | 3               | 23165      | 15      | #0          | QAM16      | 716.00          | -25.05           | -13         | PASS    |
| Band12 | 5               | 23035      | 25      | #0          | QPSK       | 698.72          | -30.40           | -13         | PASS    |
| Band12 | 5               | 23035      | 25      | #0          | QAM16      | 698.53          | -32.21           | -13         | PASS    |
| Band12 | 5               | 23155      | 25      | #0          | QPSK       | 716.29          | -31.72           | -13         | PASS    |
| Band12 | 5               | 23155      | 25      | #0          | QAM16      | 716.00          | -32.35           | -13         | PASS    |
| Band12 | 10              | 23060      | 50      | #0          | QPSK       | 698.27          | -33.35           | -13         | PASS    |
| Band12 | 10              | 23060      | 50      | #0          | QAM16      | 698.78          | -35.48           | -13         | PASS    |
| Band12 | 10              | 23130      | 50      | #0          | QPSK       | 716.19          | -35.22           | -13         | PASS    |
| Band12 | 10              | 23130      | 50      | #0          | QAM16      | 716.63          | -37.82           | -13         | PASS    |

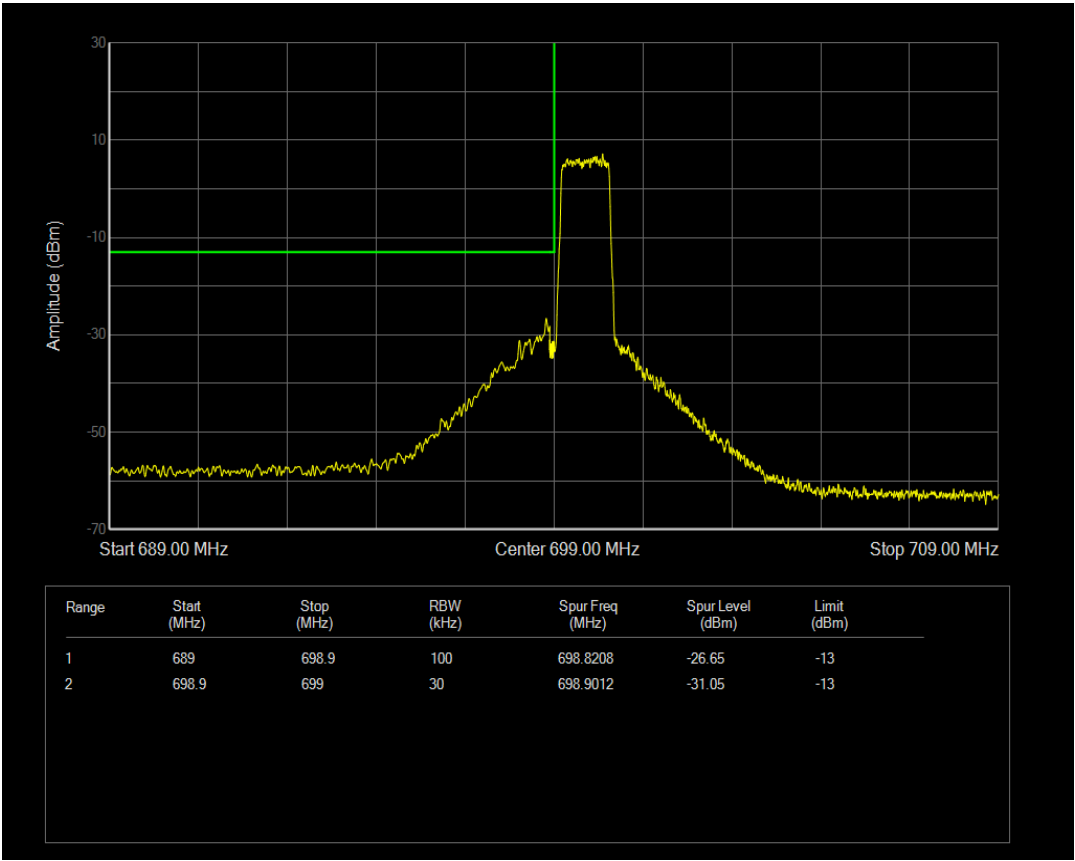
**Band12 QAM16 BW=10MHz Channel=23060 RB Size=50 Position=#0**



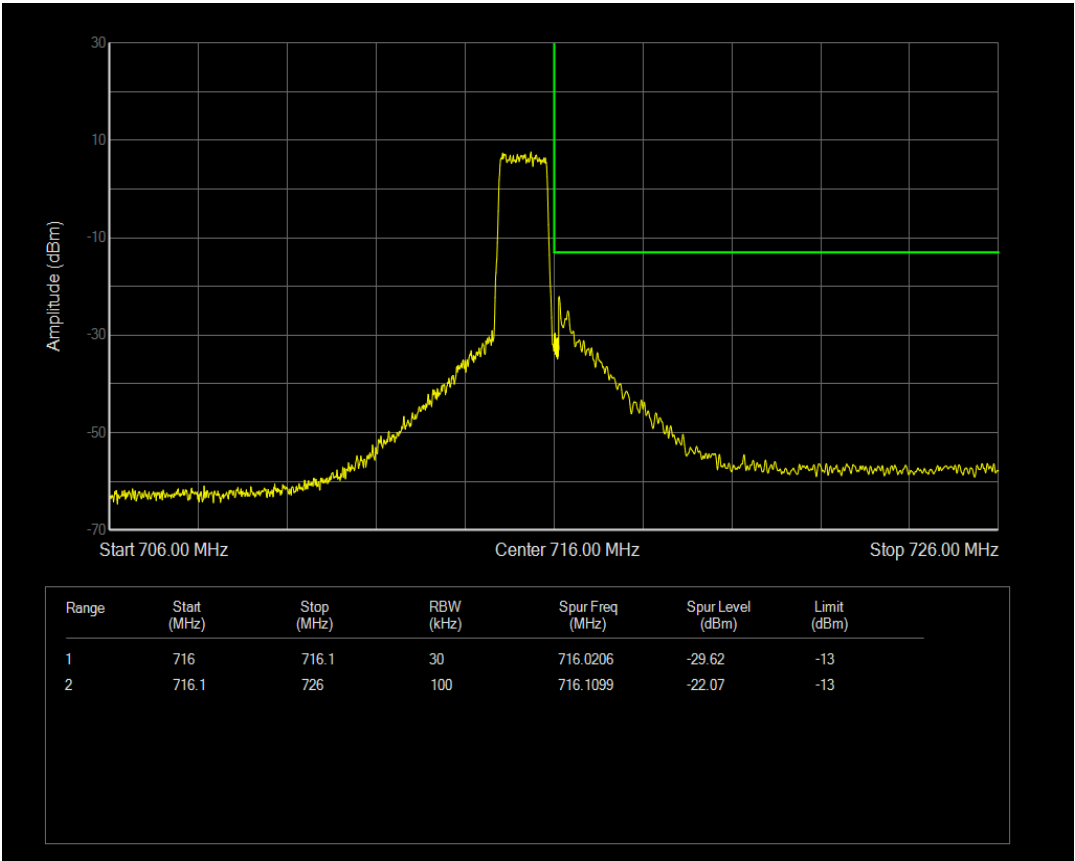
**Band12 QAM16 BW=10MHz Channel=23130 RB Size=50 Position=#0**



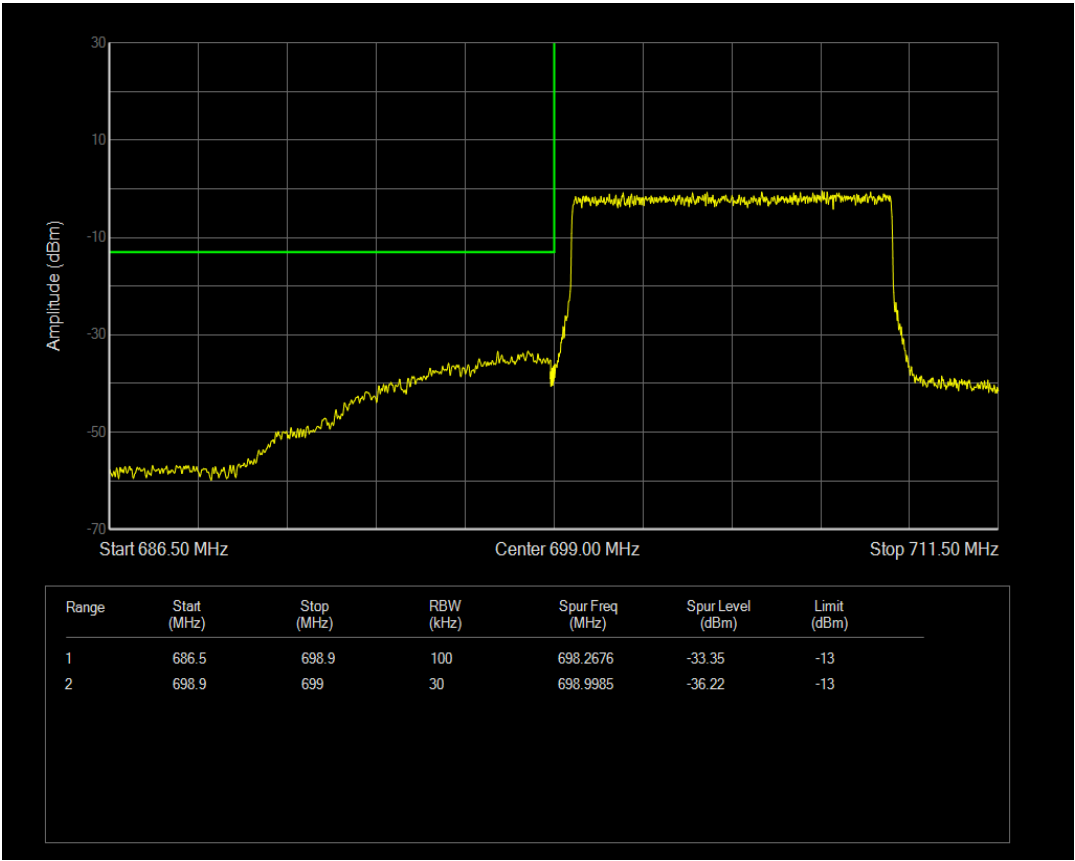
**Band12 QAM16 BW=1.4MHz Channel=23017 RB Size=6 Position=#0**



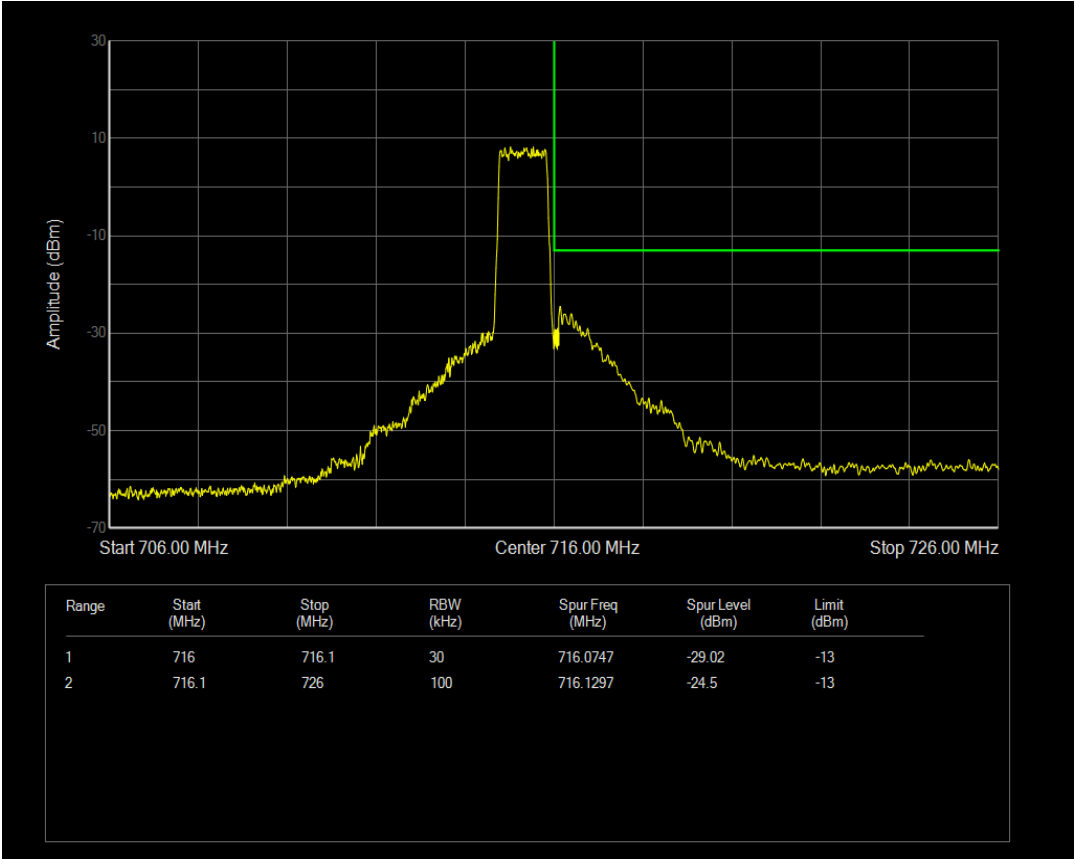
**Band12 QAM16 BW=1.4MHz Channel=23173 RB Size=6 Position=#0**



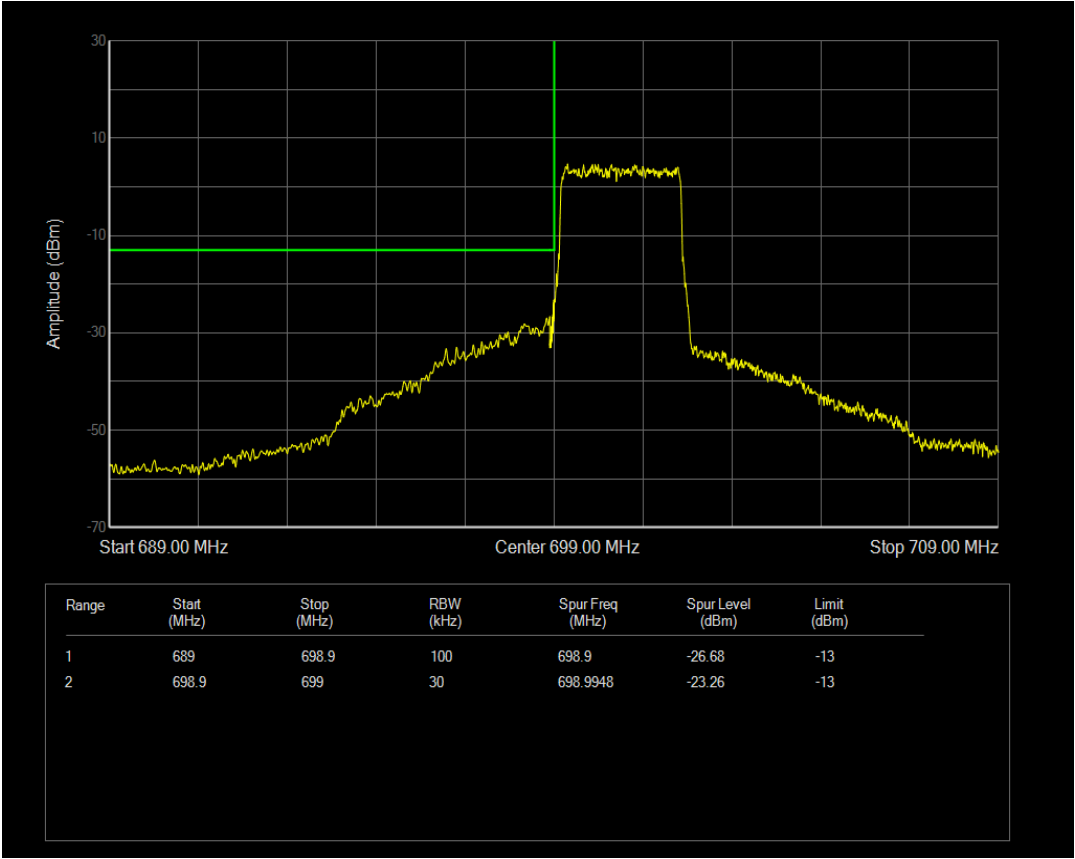
**Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0**



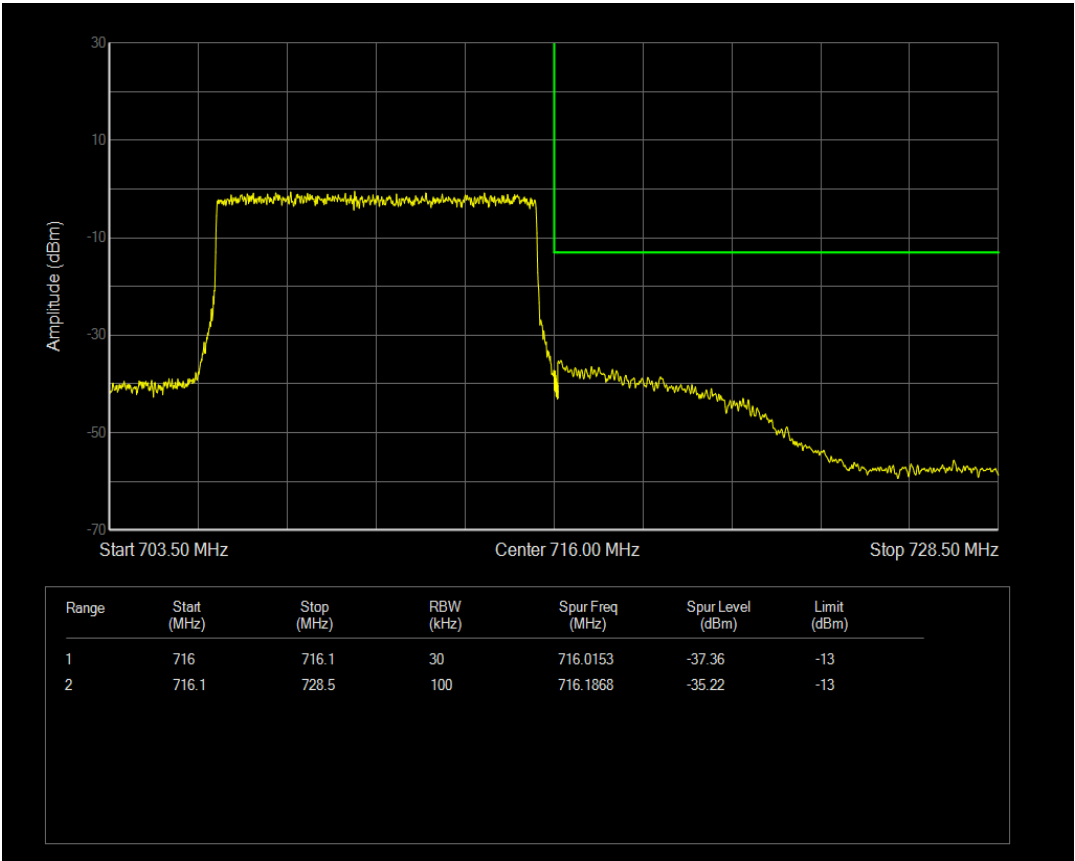
**Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0**



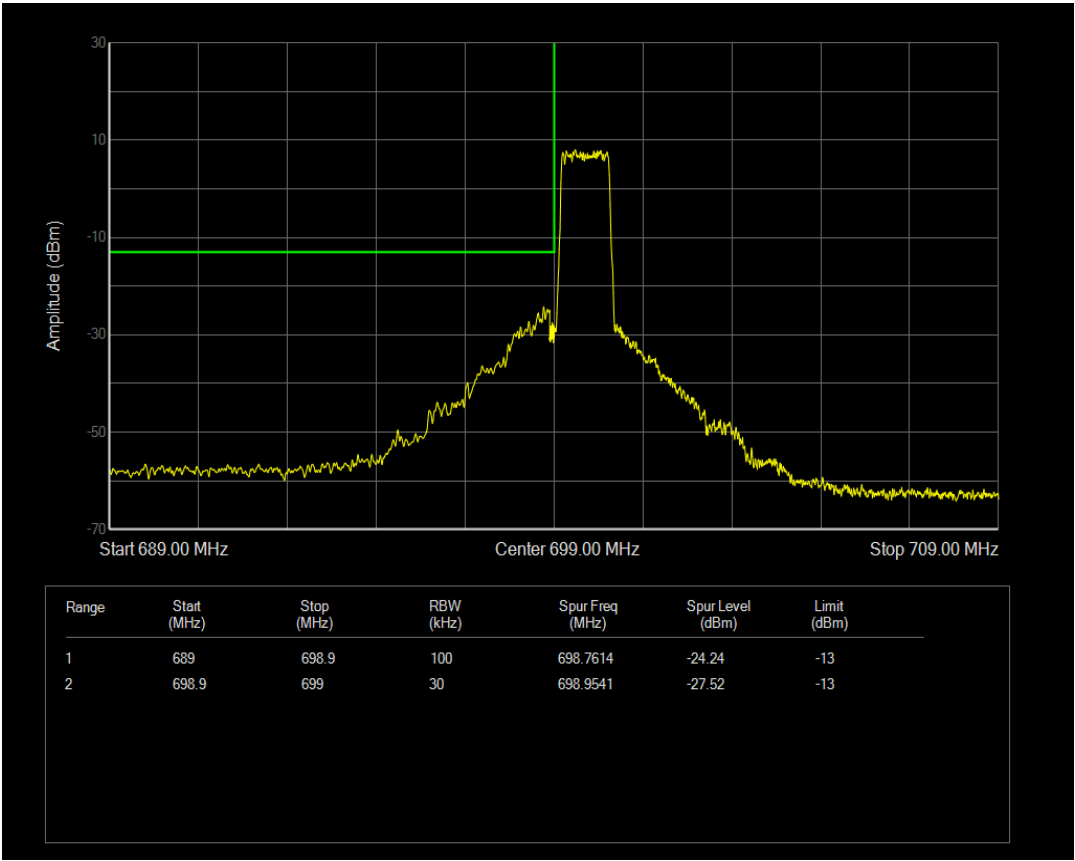
**Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0**



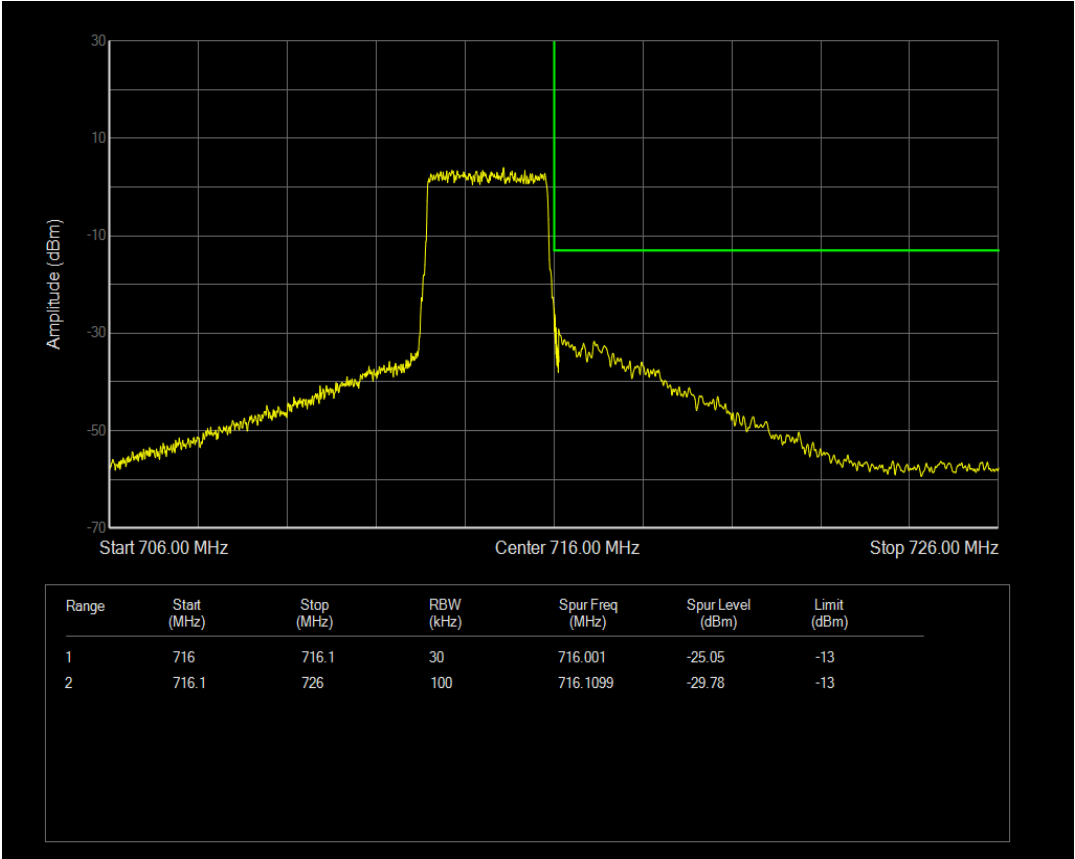
**Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0**



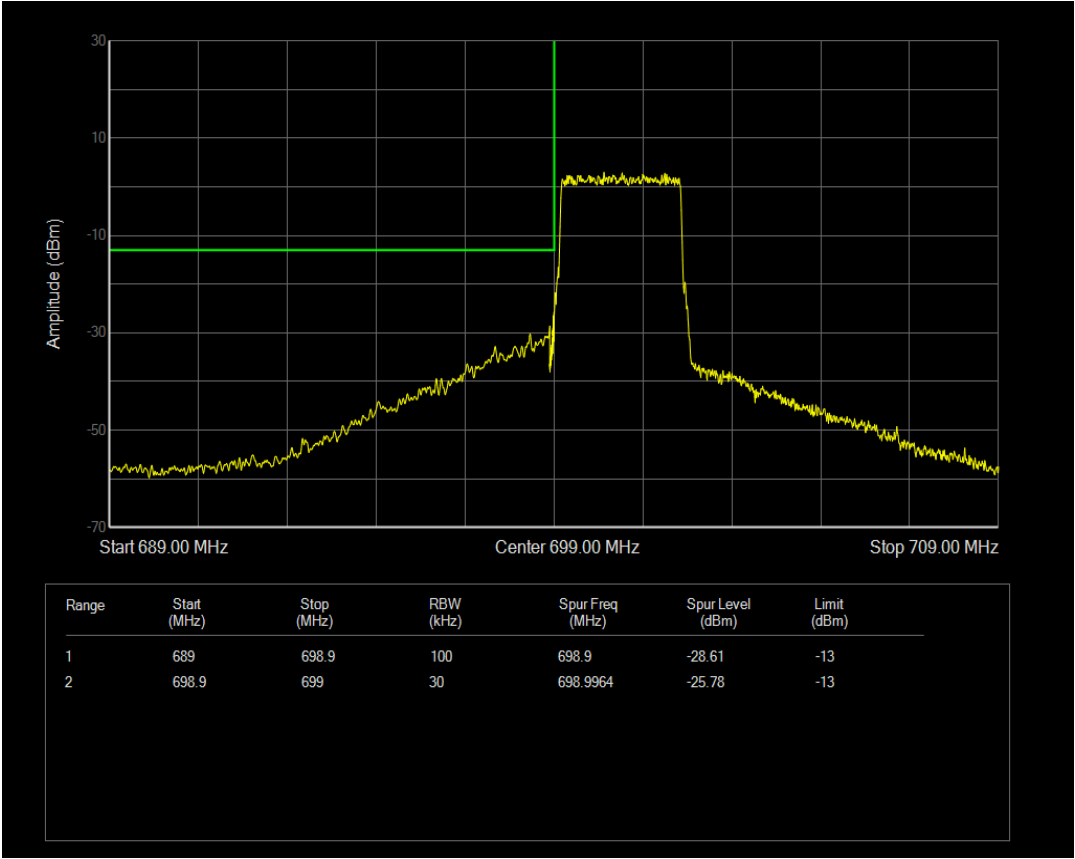
**Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0**



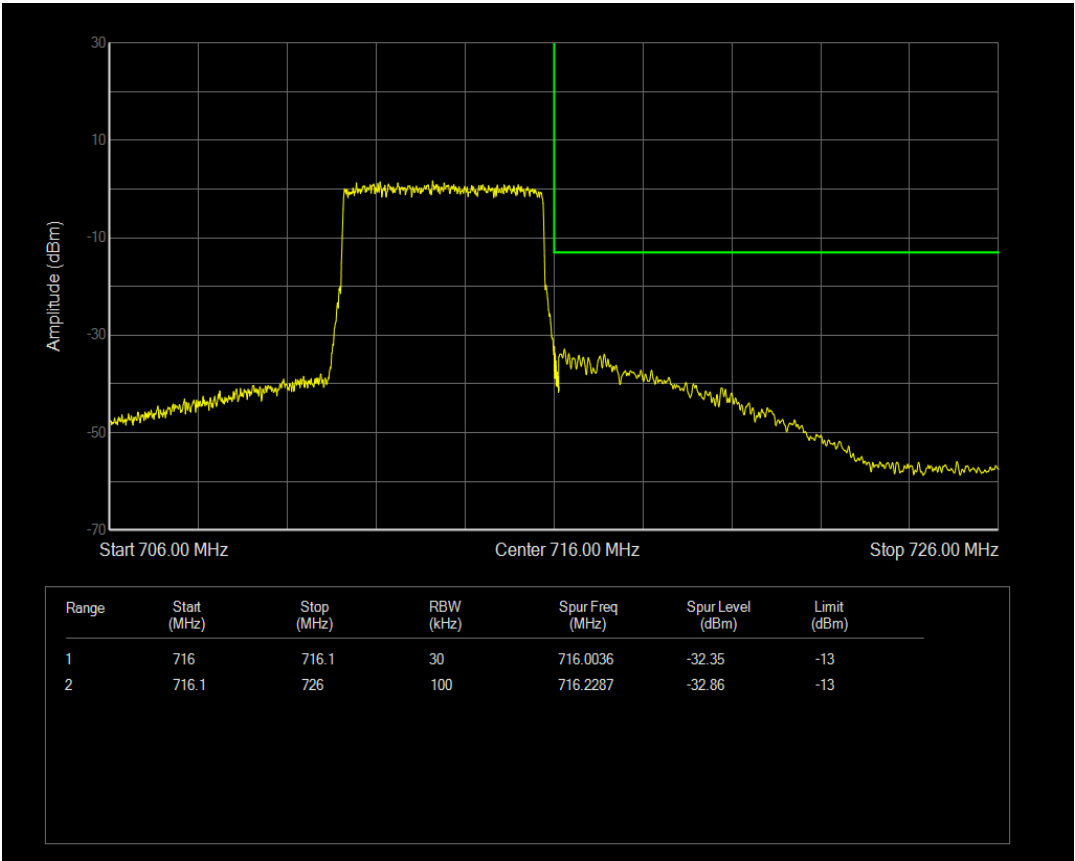
**Band12 QAM16 BW=3MHz Channel=23165 RB Size=15 Position=#0**



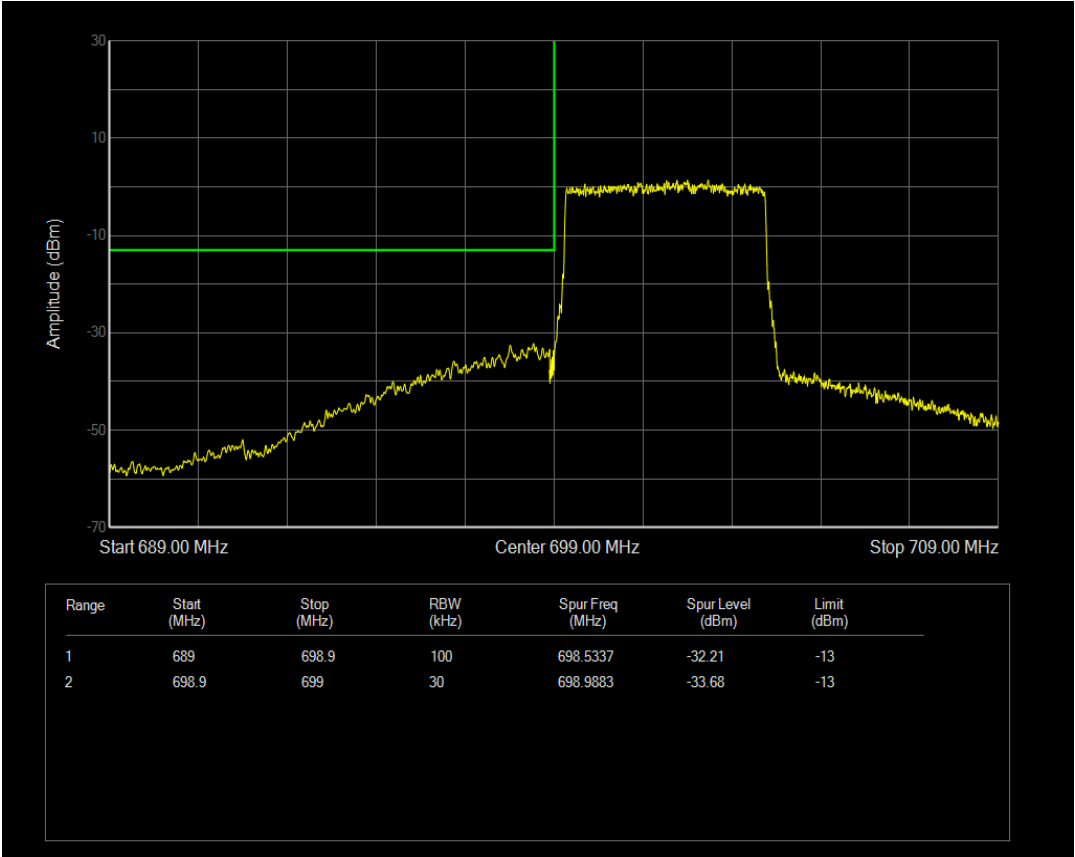
Band12 QAM16 BW=3MHz Channel=23025 RB Size=15 Position=#0



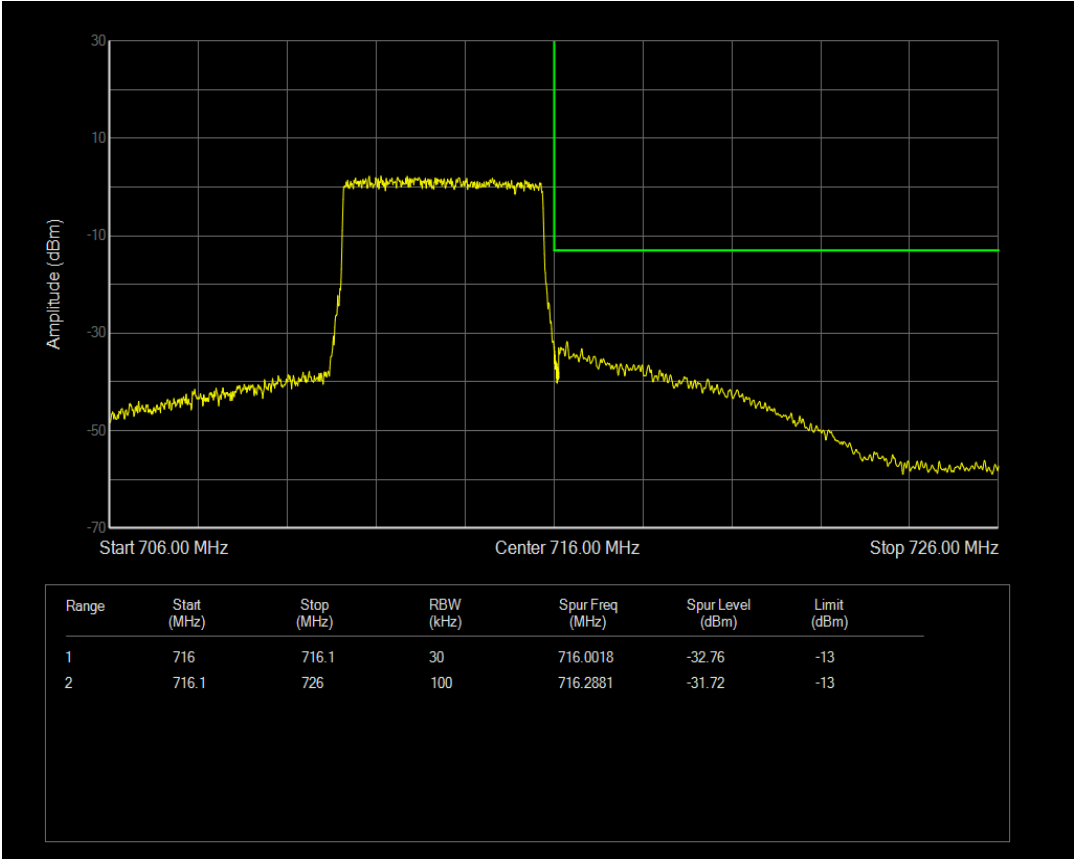
Band12 QAM16 BW=5MHz Channel=23155 RB Size=25 Position=#0



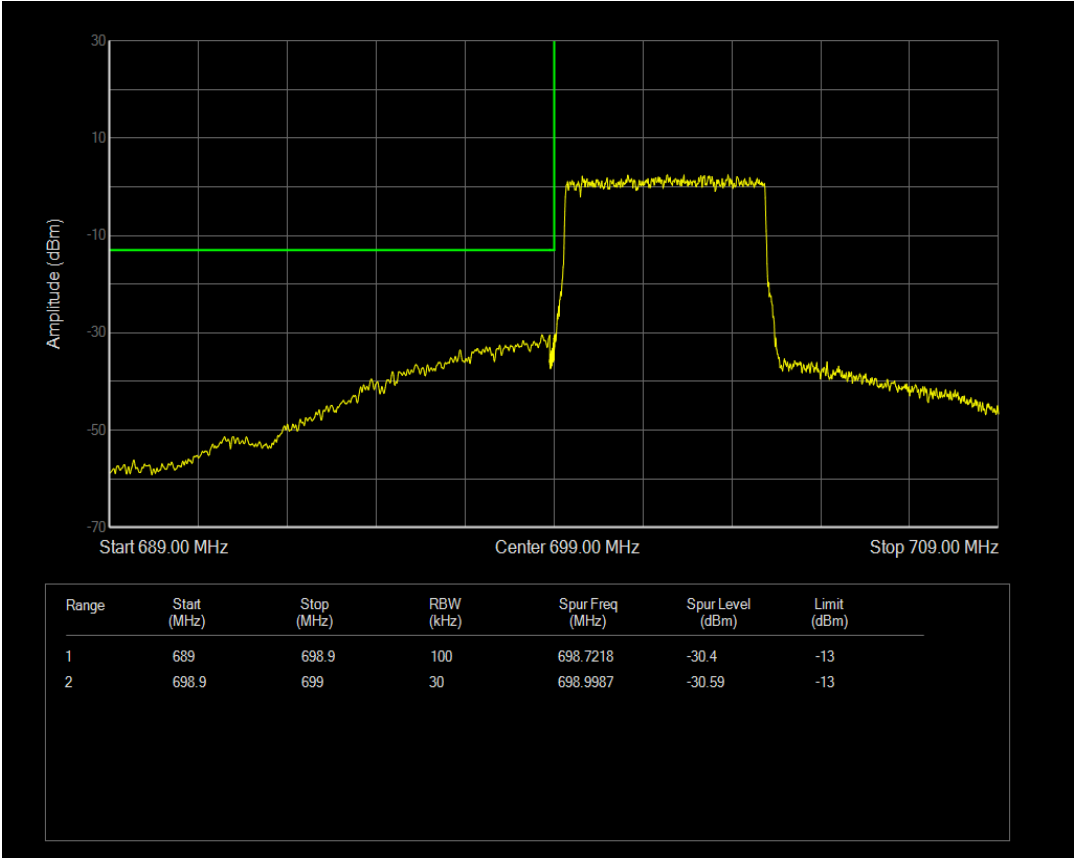
**Band12 QAM16 BW=5MHz Channel=23035 RB Size=25 Position=#0**



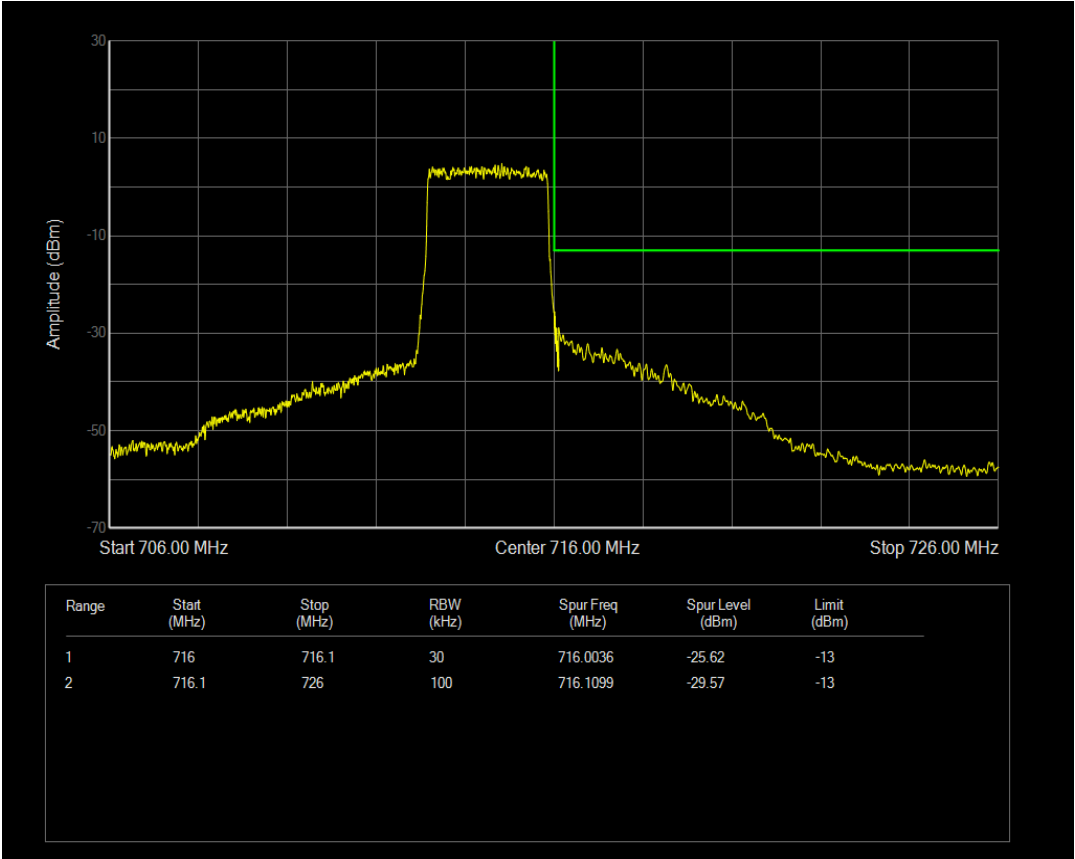
**Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0**



**Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0**



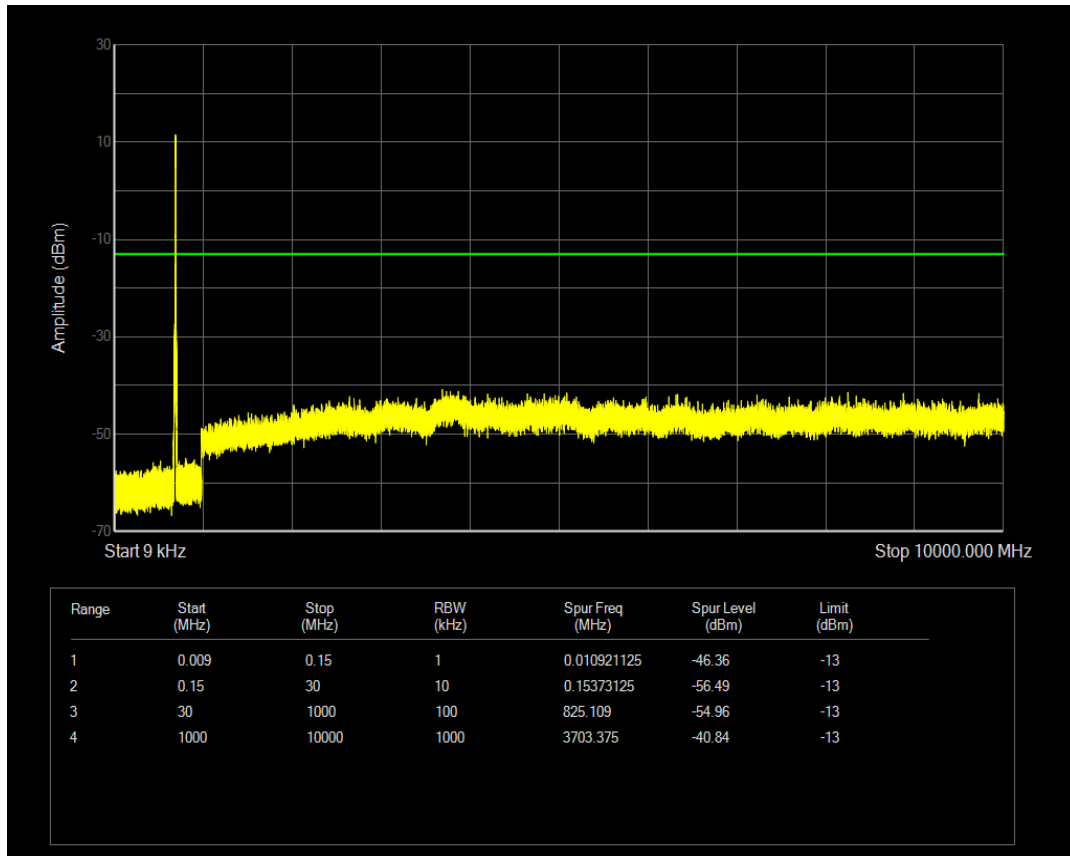
**Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0**



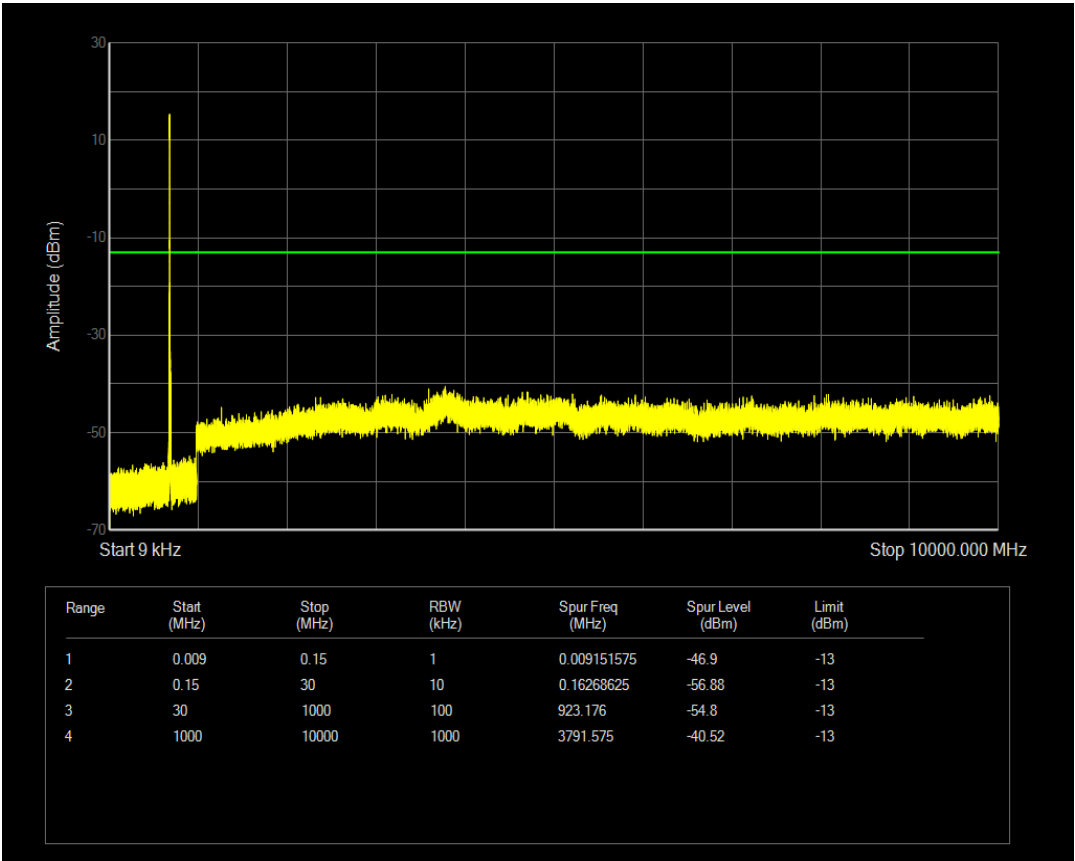
## 6 Out-of-band emissions

| Band   | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Size | RB<br>Position | Modulation | Spur<br>Freq<br>(MHz) | Spur<br>Level<br>(dBm) | Limit<br>(dBm) | Verdict |
|--------|--------------------|---------------|------------|----------------|------------|-----------------------|------------------------|----------------|---------|
| Band12 | 1.4                | 23017         | 6          | #0             | QPSK       | 4685.28               | -40.90                 | -13            | PASS    |
| Band12 | 1.4                | 23017         | 6          | #0             | QAM16      | 3750.85               | -40.81                 | -13            | PASS    |
| Band12 | 1.4                | 23173         | 6          | #0             | QPSK       | 3763.90               | -39.74                 | -13            | PASS    |
| Band12 | 1.4                | 23173         | 6          | #0             | QAM16      | 3806.20               | -40.03                 | -13            | PASS    |
| Band12 | 3                  | 23025         | 15         | #0             | QPSK       | 3834.55               | -39.41                 | -13            | PASS    |
| Band12 | 3                  | 23025         | 15         | #0             | QAM16      | 3791.58               | -40.52                 | -13            | PASS    |
| Band12 | 3                  | 23165         | 15         | #0             | QPSK       | 3787.75               | -40.40                 | -13            | PASS    |
| Band12 | 3                  | 23165         | 15         | #0             | QAM16      | 9753.18               | -40.59                 | -13            | PASS    |
| Band12 | 5                  | 23035         | 25         | #0             | QPSK       | 3850.53               | -41.20                 | -13            | PASS    |
| Band12 | 5                  | 23035         | 25         | #0             | QAM16      | 3759.18               | -40.77                 | -13            | PASS    |
| Band12 | 5                  | 23155         | 25         | #0             | QPSK       | 1766.58               | -40.81                 | -13            | PASS    |
| Band12 | 5                  | 23155         | 25         | #0             | QAM16      | 5133.93               | -40.67                 | -13            | PASS    |
| Band12 | 10                 | 23060         | 50         | #0             | QPSK       | 3905.65               | -40.40                 | -13            | PASS    |
| Band12 | 10                 | 23060         | 50         | #0             | QAM16      | 3873.93               | -40.56                 | -13            | PASS    |
| Band12 | 10                 | 23130         | 50         | #0             | QPSK       | 4658.05               | -40.61                 | -13            | PASS    |
| Band12 | 10                 | 23130         | 50         | #0             | QAM16      | 3703.38               | -40.84                 | -13            | PASS    |

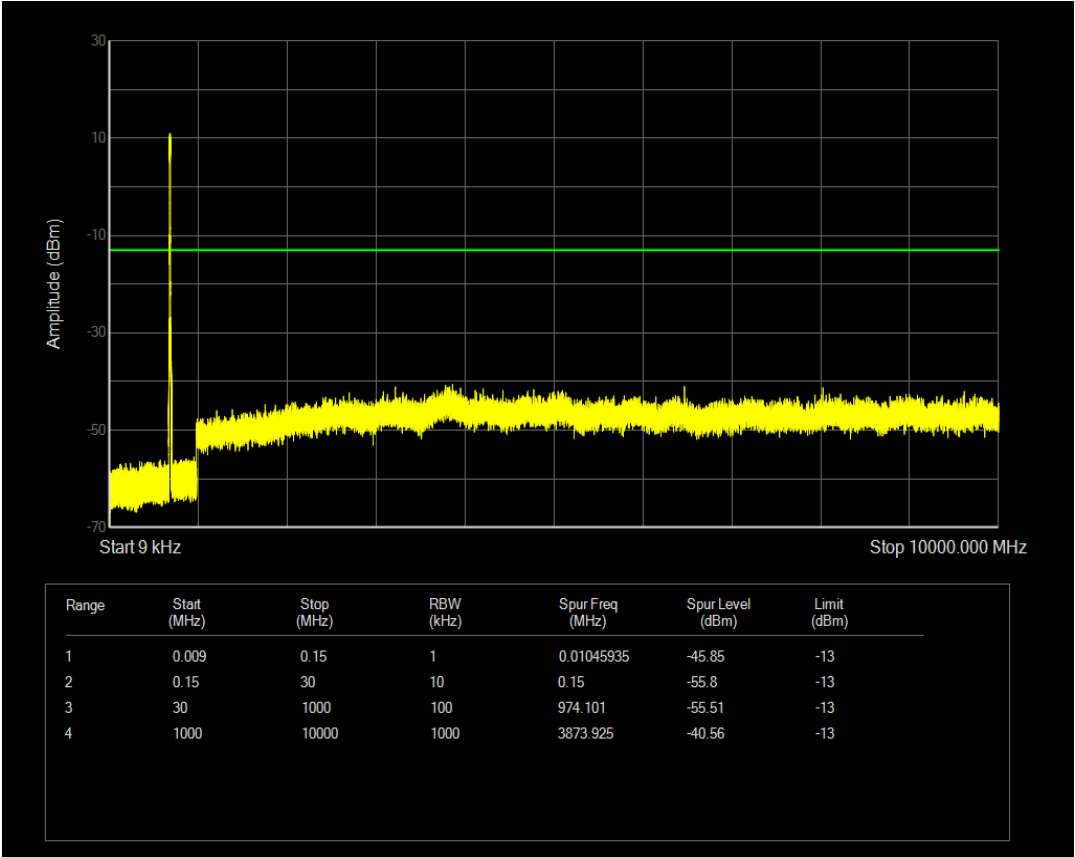
**Band12 QAM16 BW=10MHz Channel=23130 RB Size=50 Position=#0**



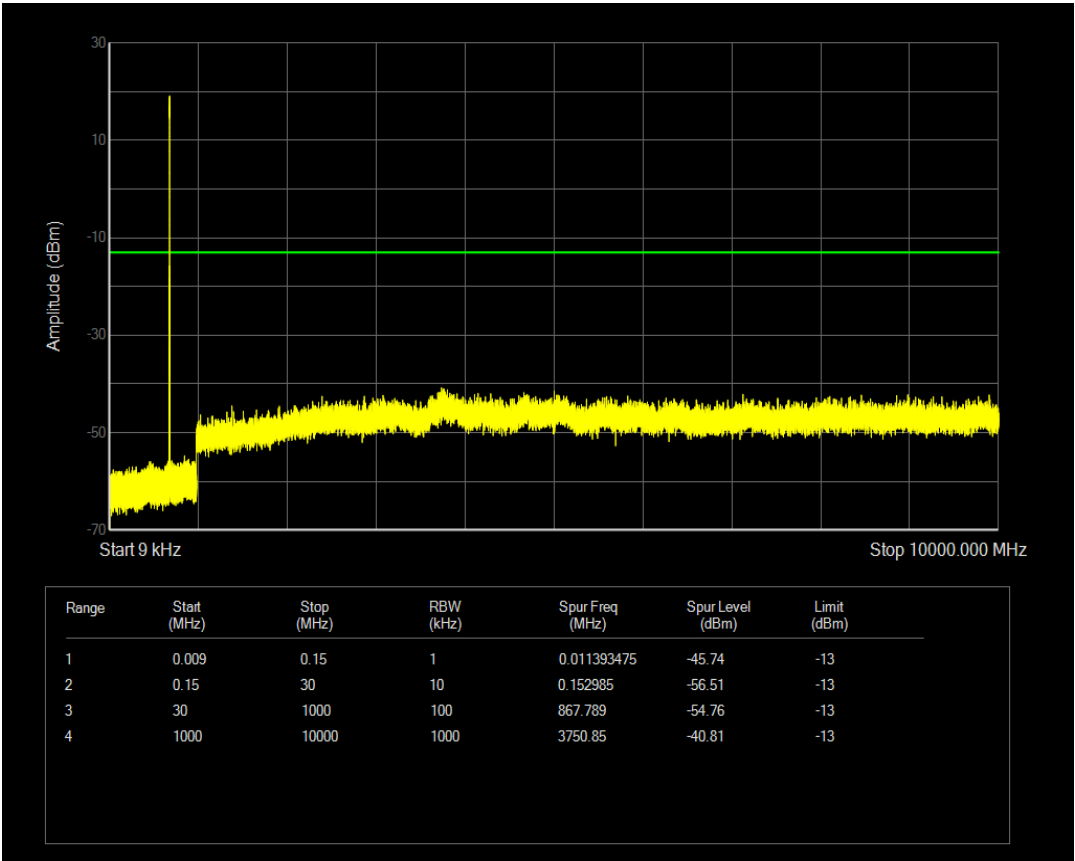
**Band12 QAM16 BW=3MHz Channel=23025 RB Size=15 Position=#0**



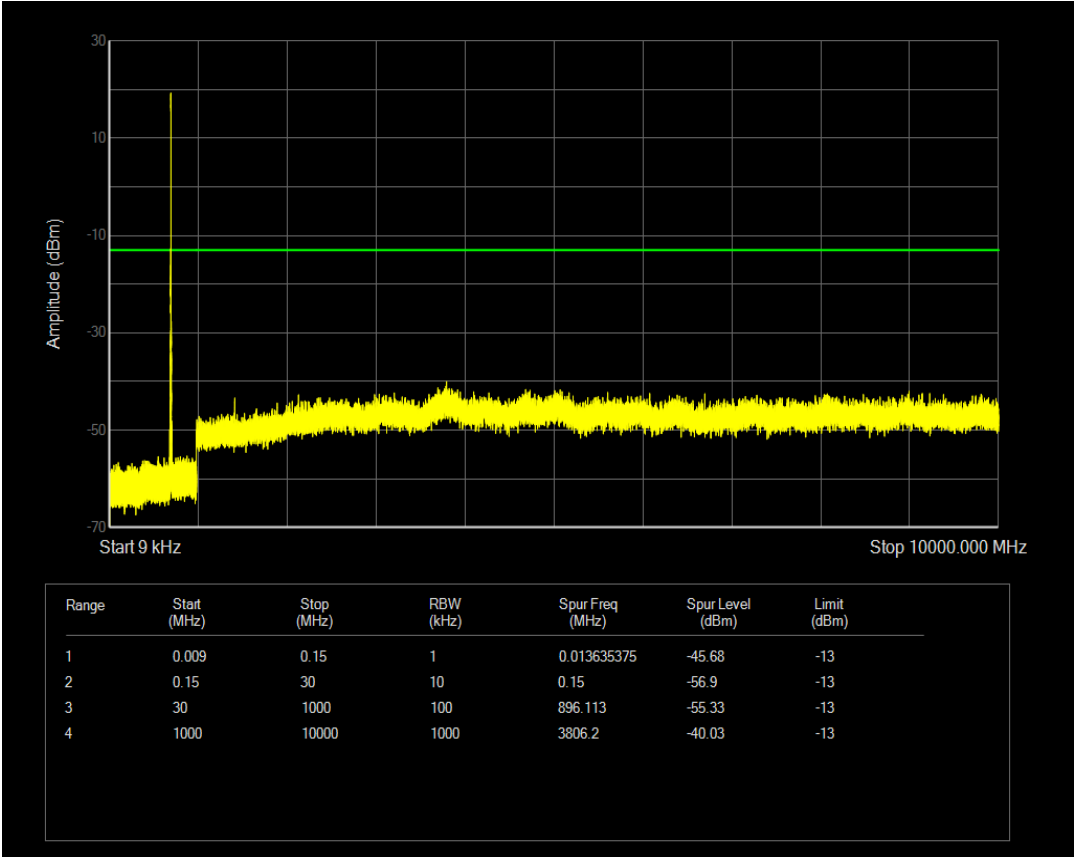
Band12 QAM16 BW=10MHz Channel=23060 RB Size=50 Position=#0



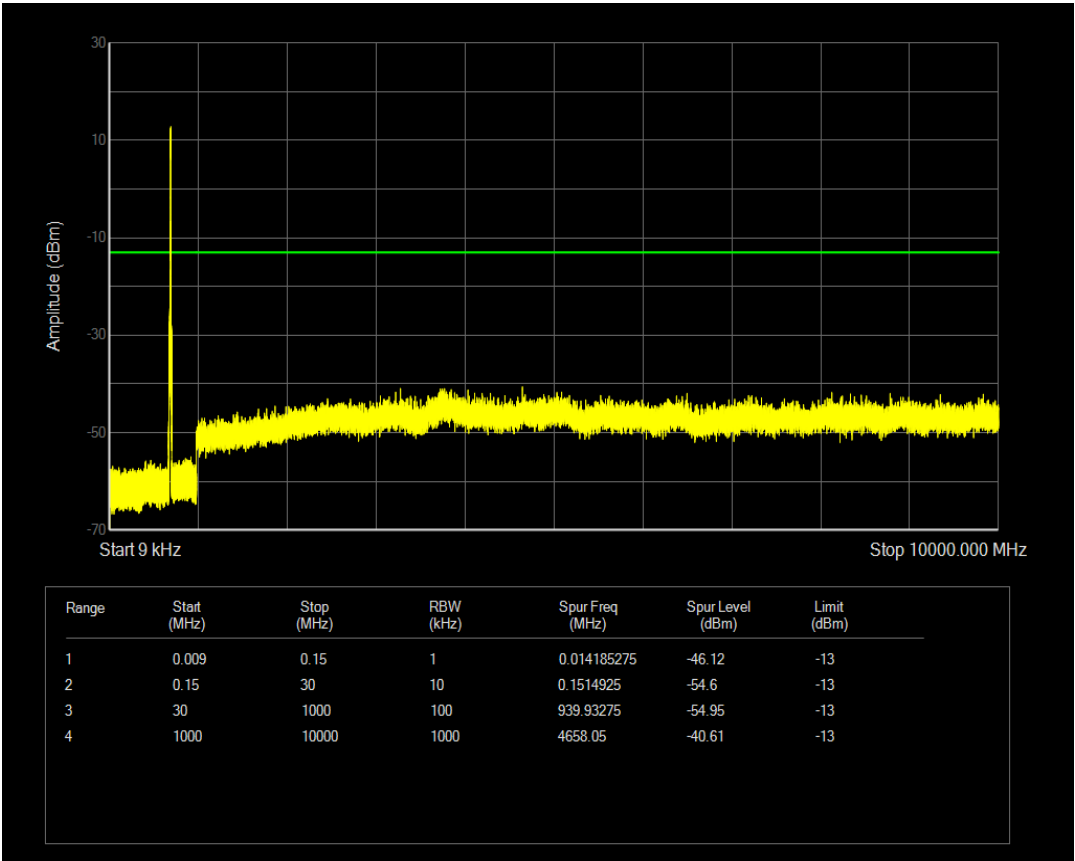
Band12 QAM16 BW=1.4MHz Channel=23017 RB Size=6 Position=#0



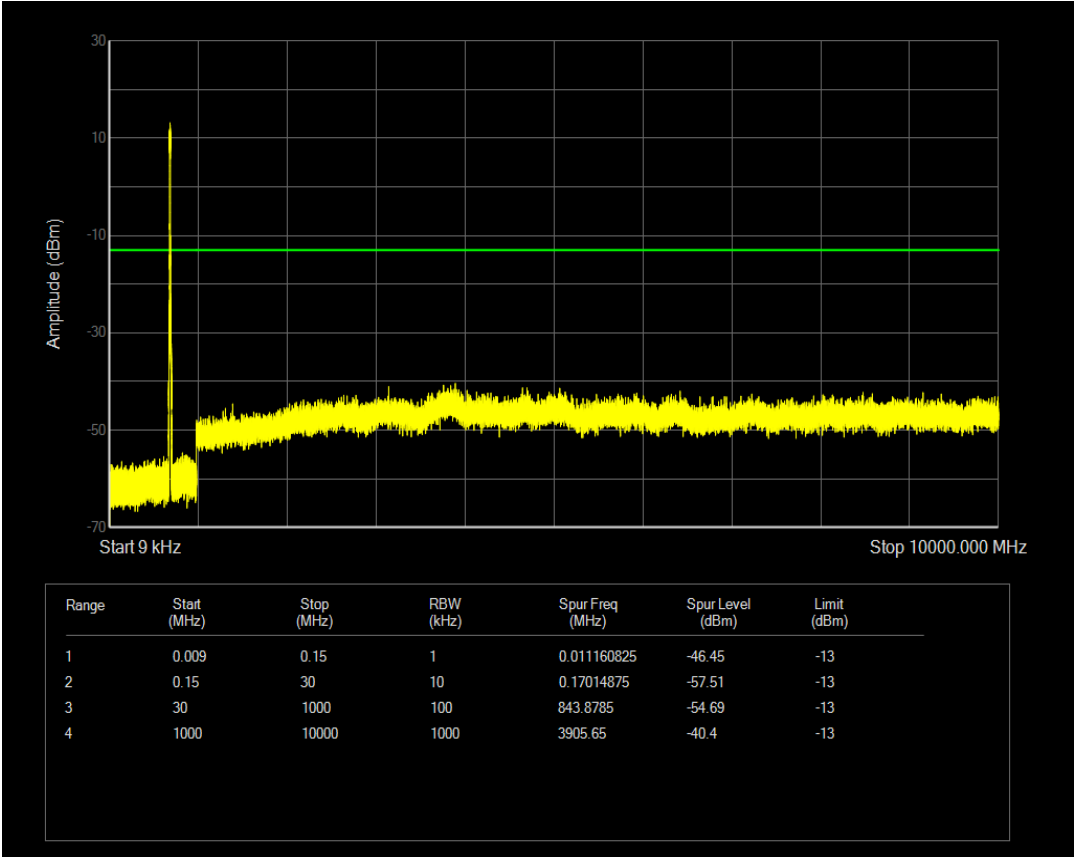
Band12 QAM16 BW=1.4MHz Channel=23173 RB Size=6 Position=#0



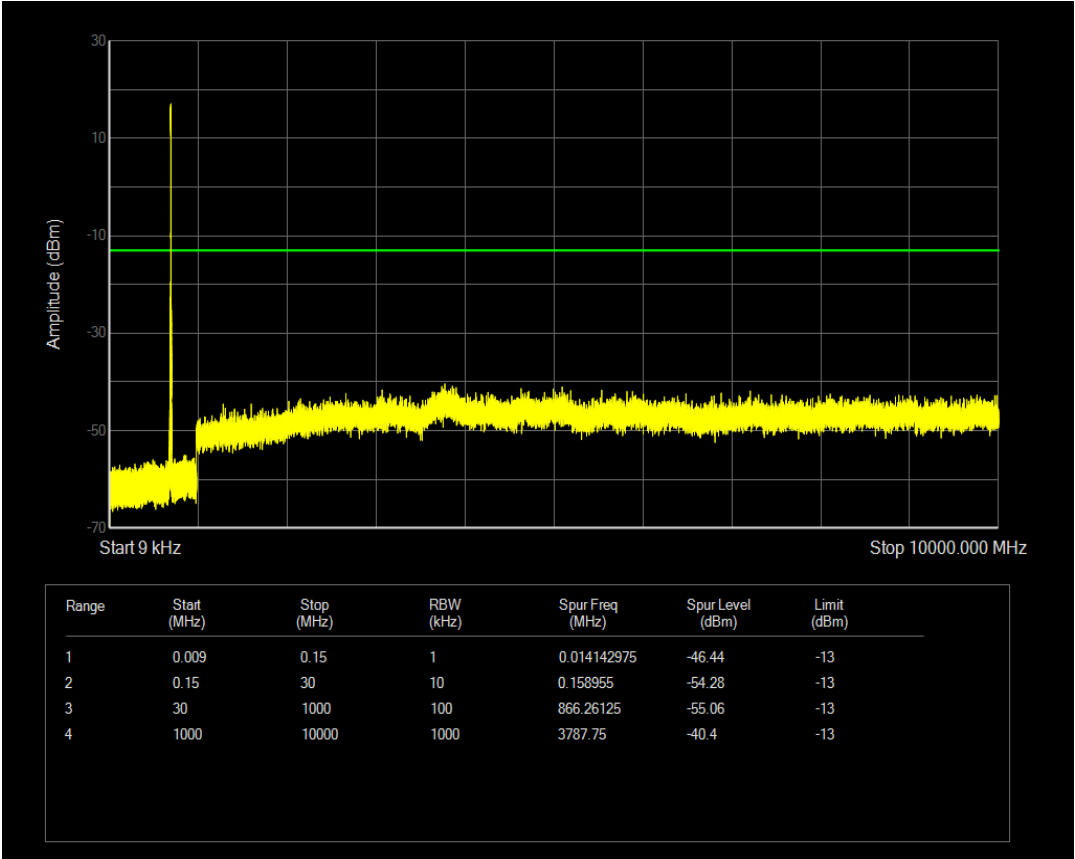
Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0



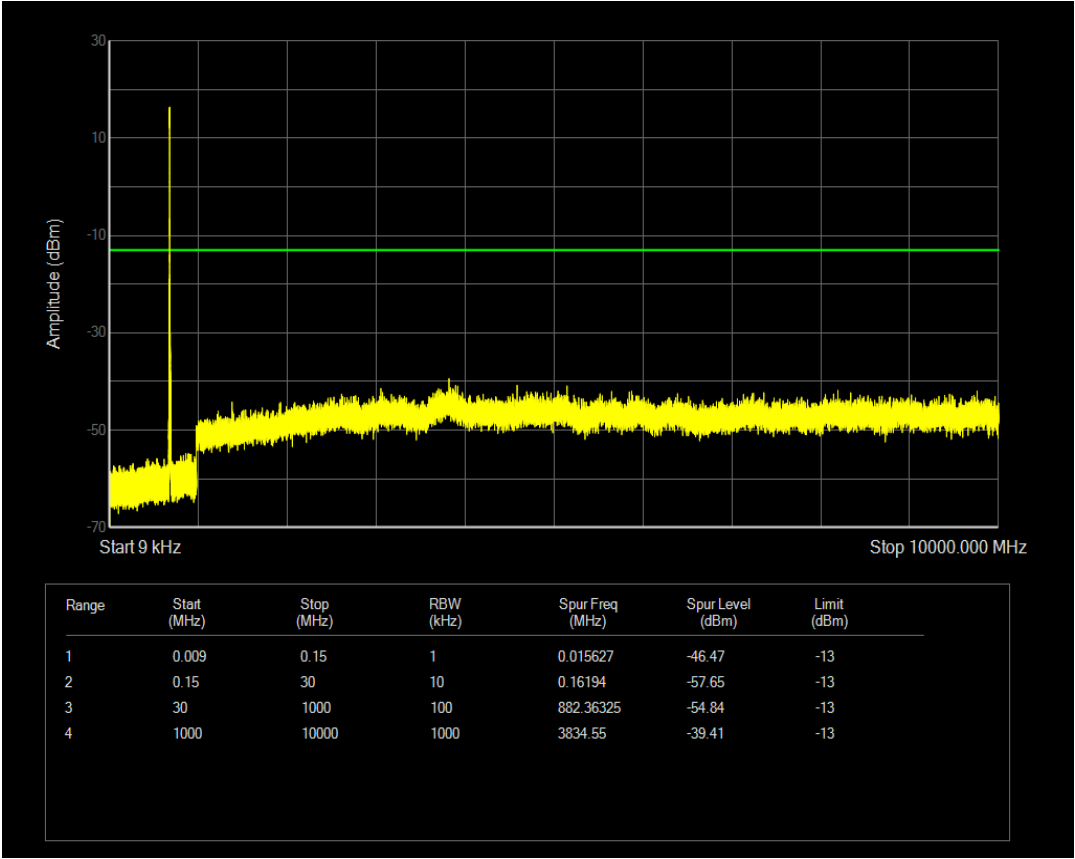
**Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0**



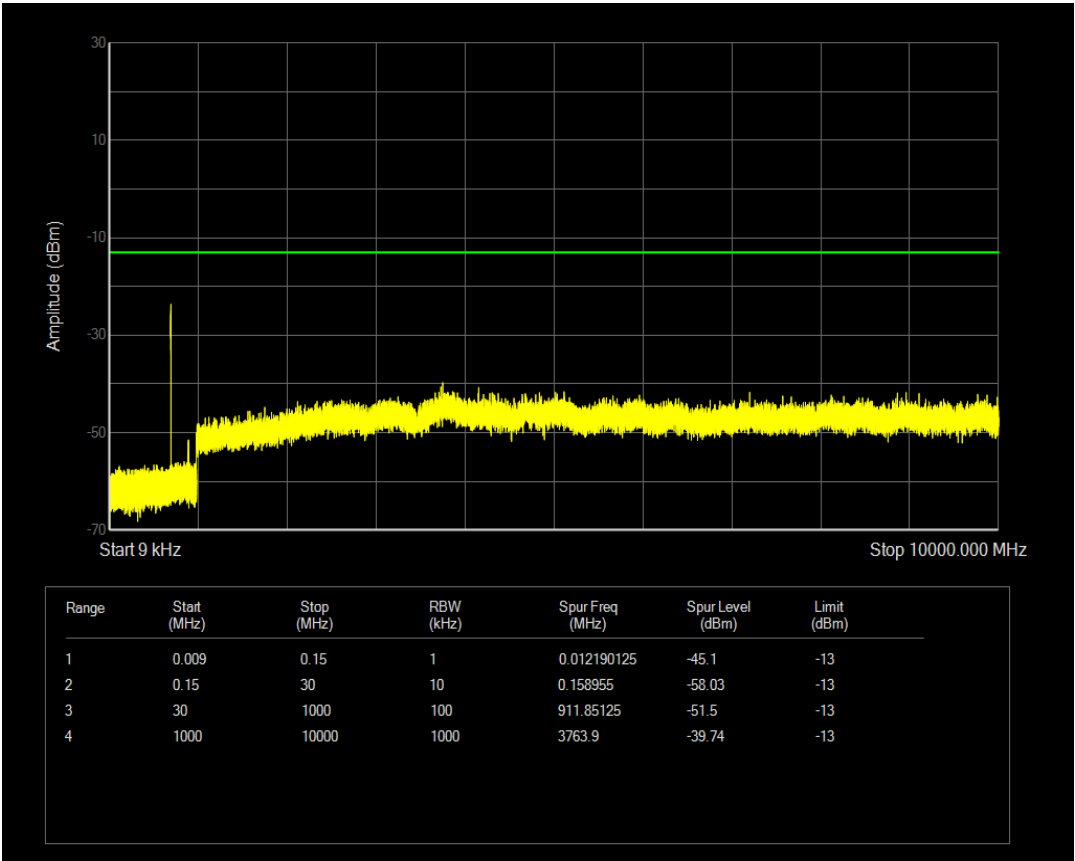
**Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0**



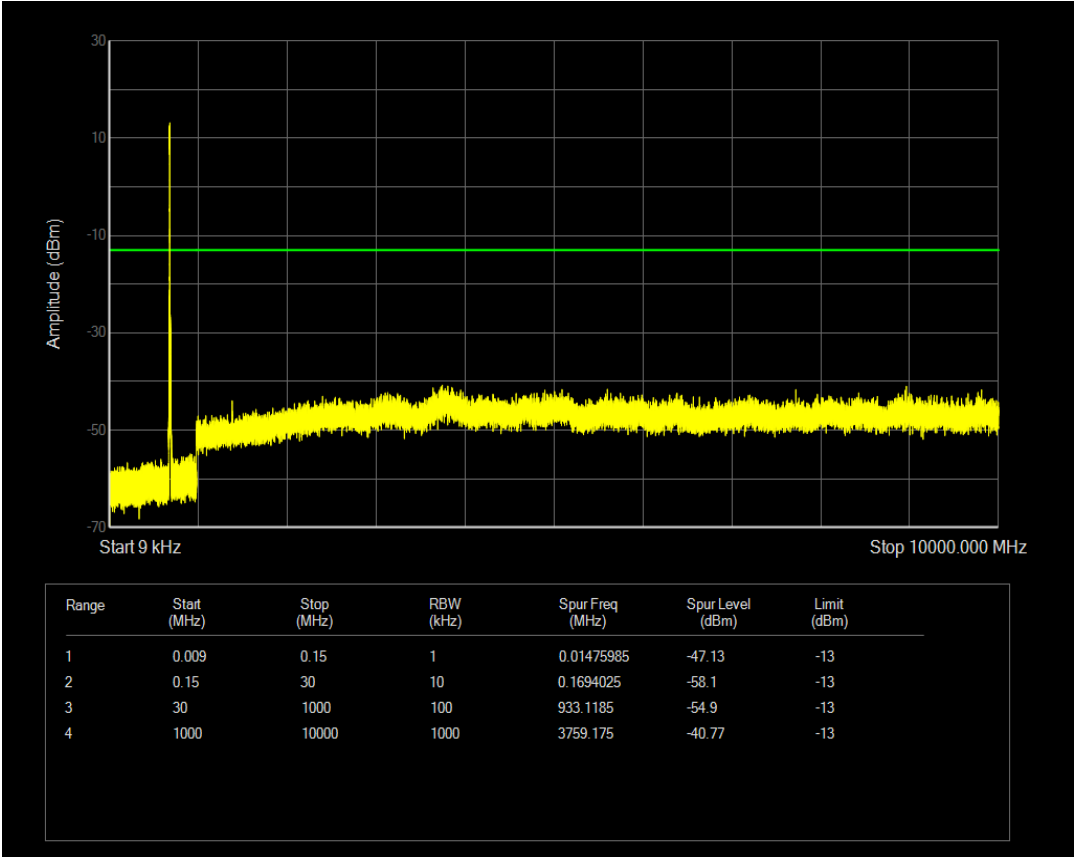
**Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0**



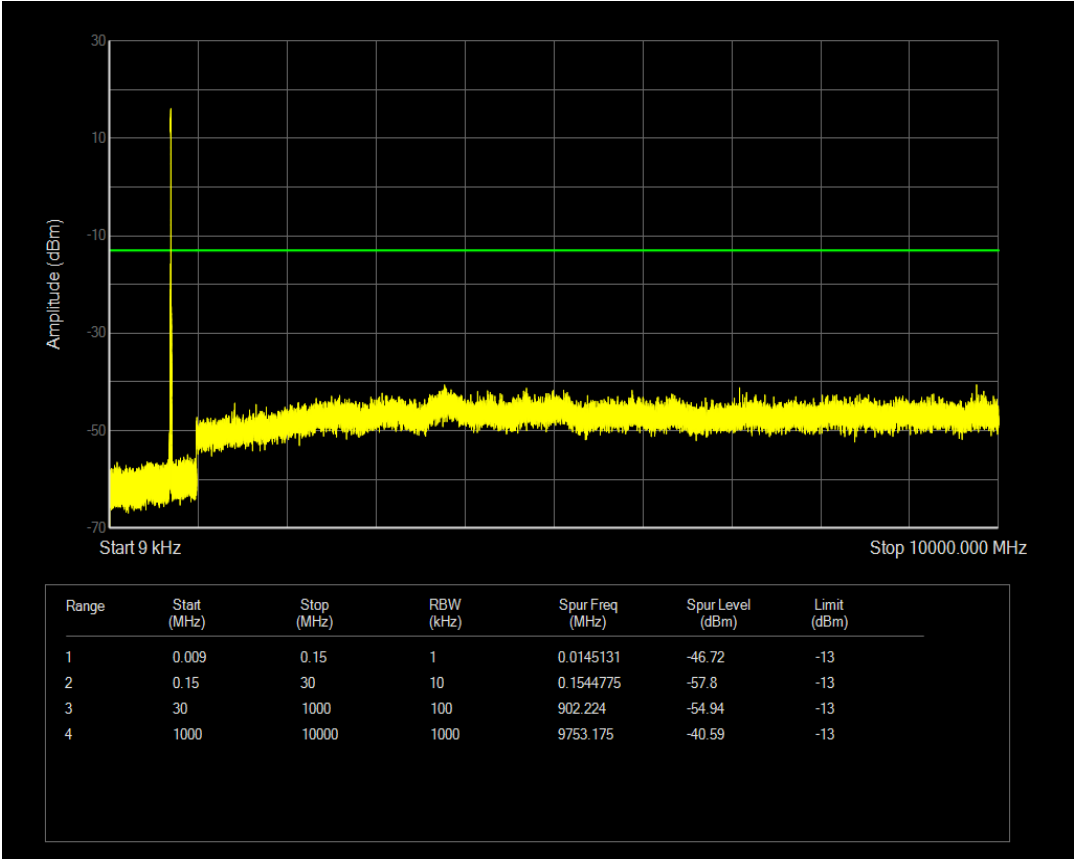
**Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0**



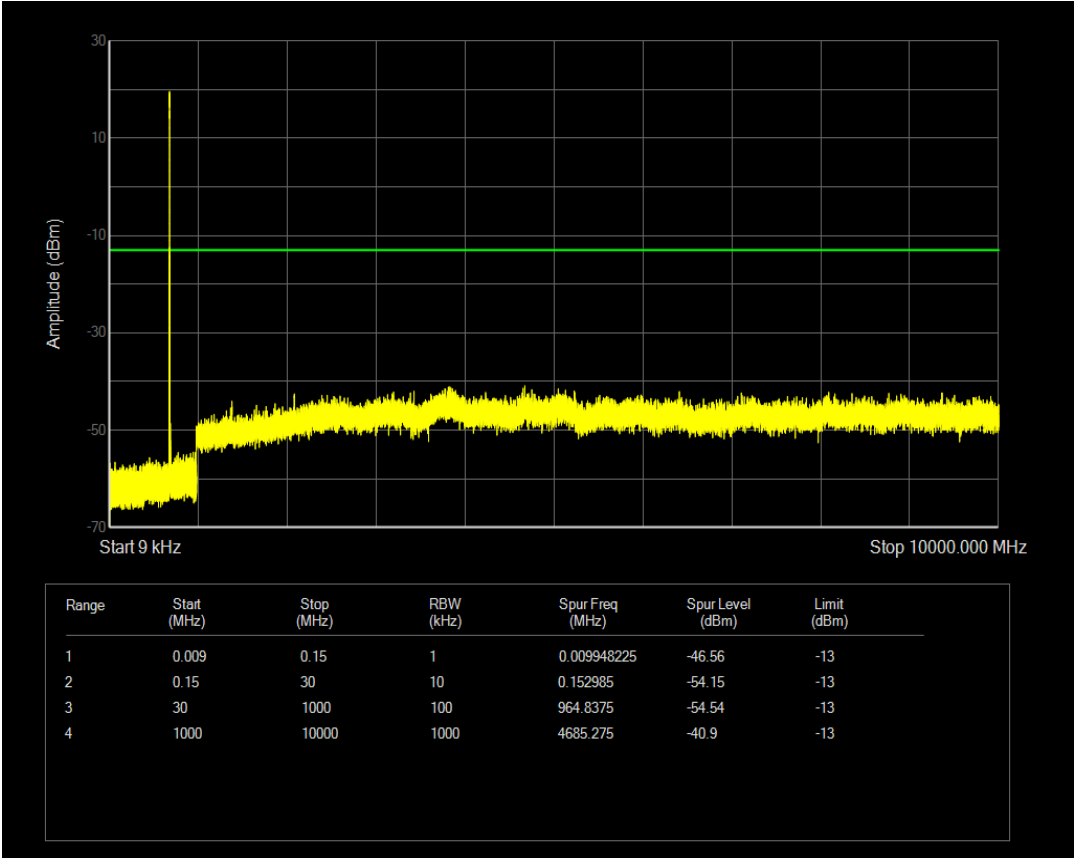
Band12 QAM16 BW=5MHz Channel=23035 RB Size=25 Position=#0



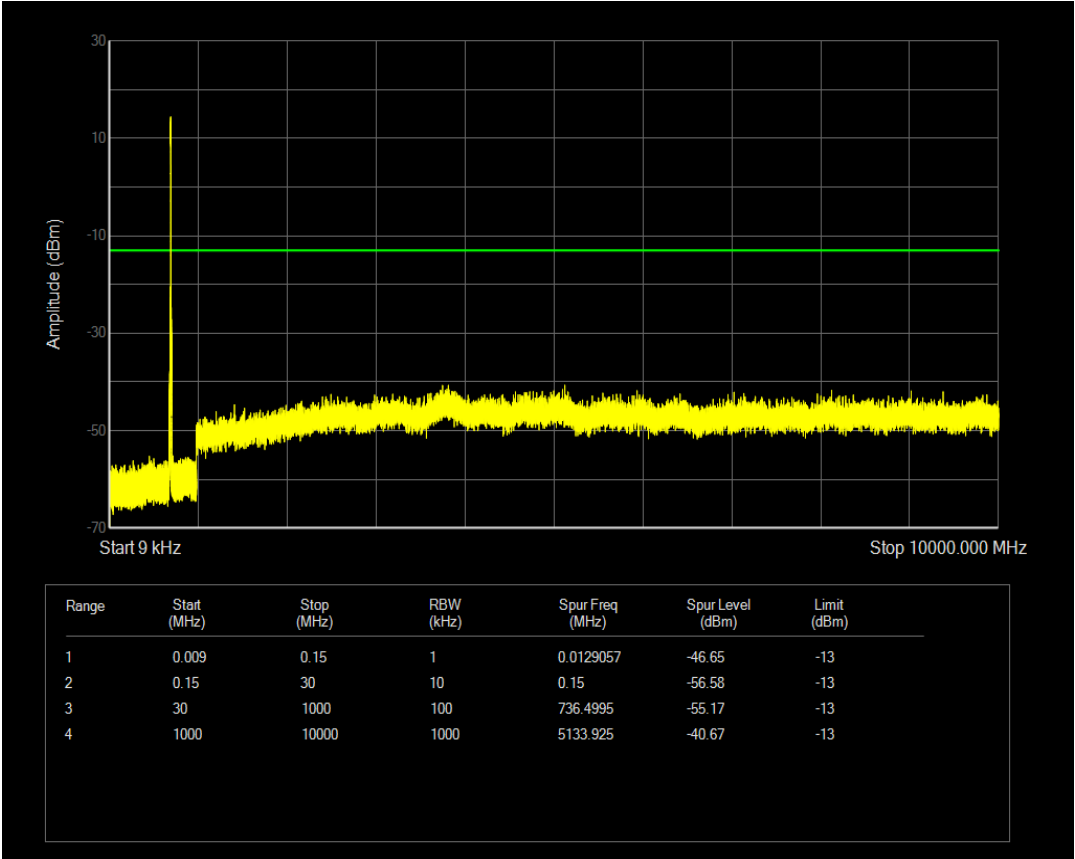
Band12 QAM16 BW=3MHz Channel=23165 RB Size=15 Position=#0



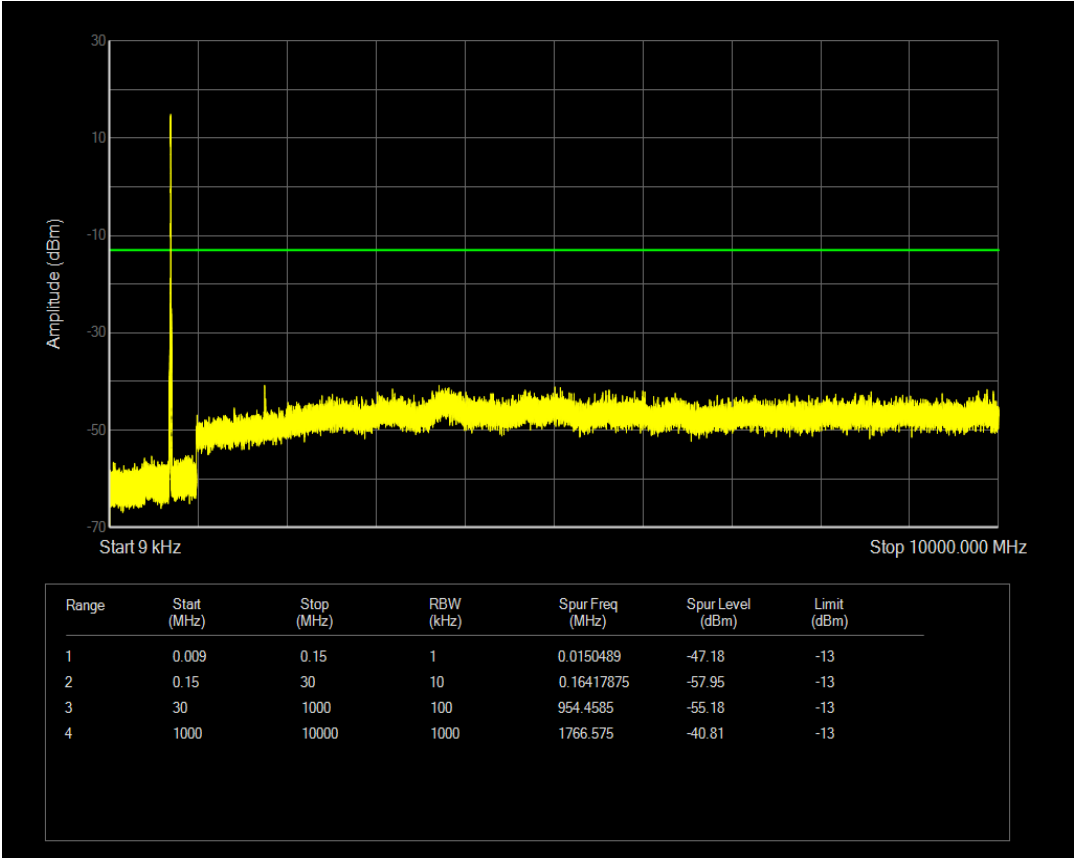
Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0



Band12 QAM16 BW=5MHz Channel=23155 RB Size=25 Position=#0



**Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0**



**Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0**

