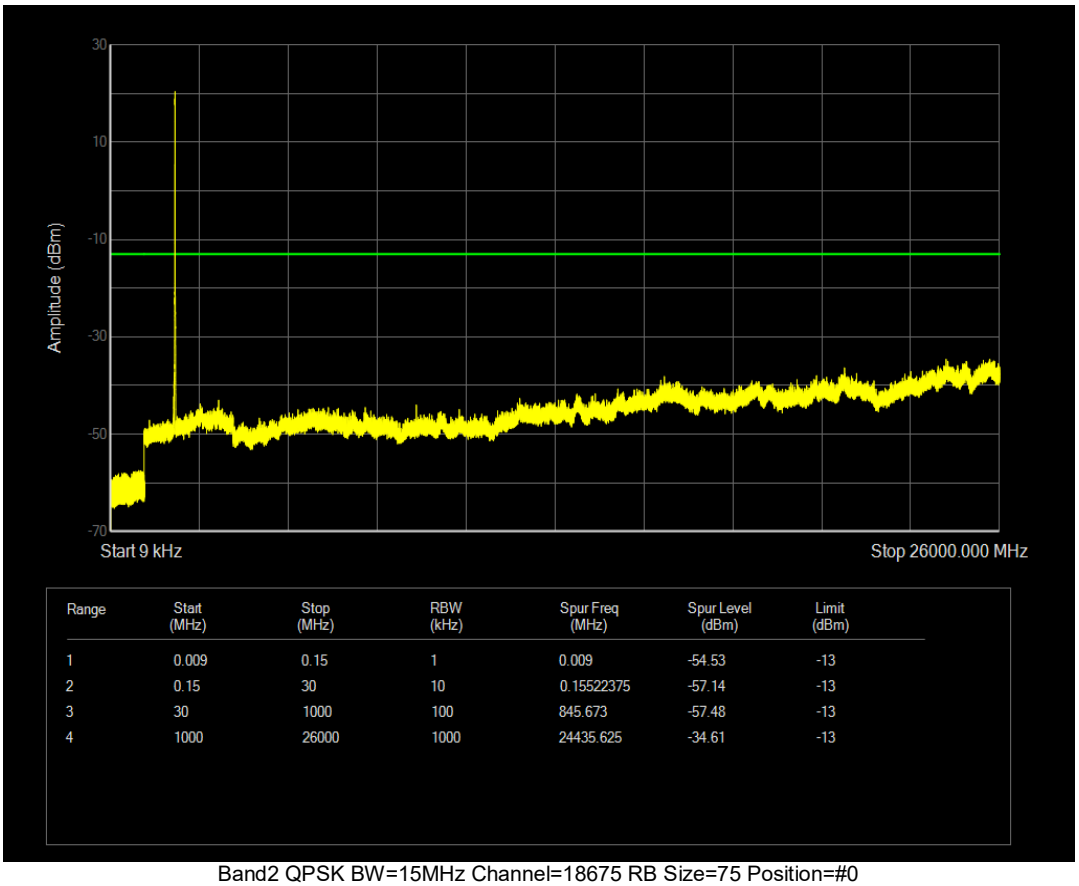
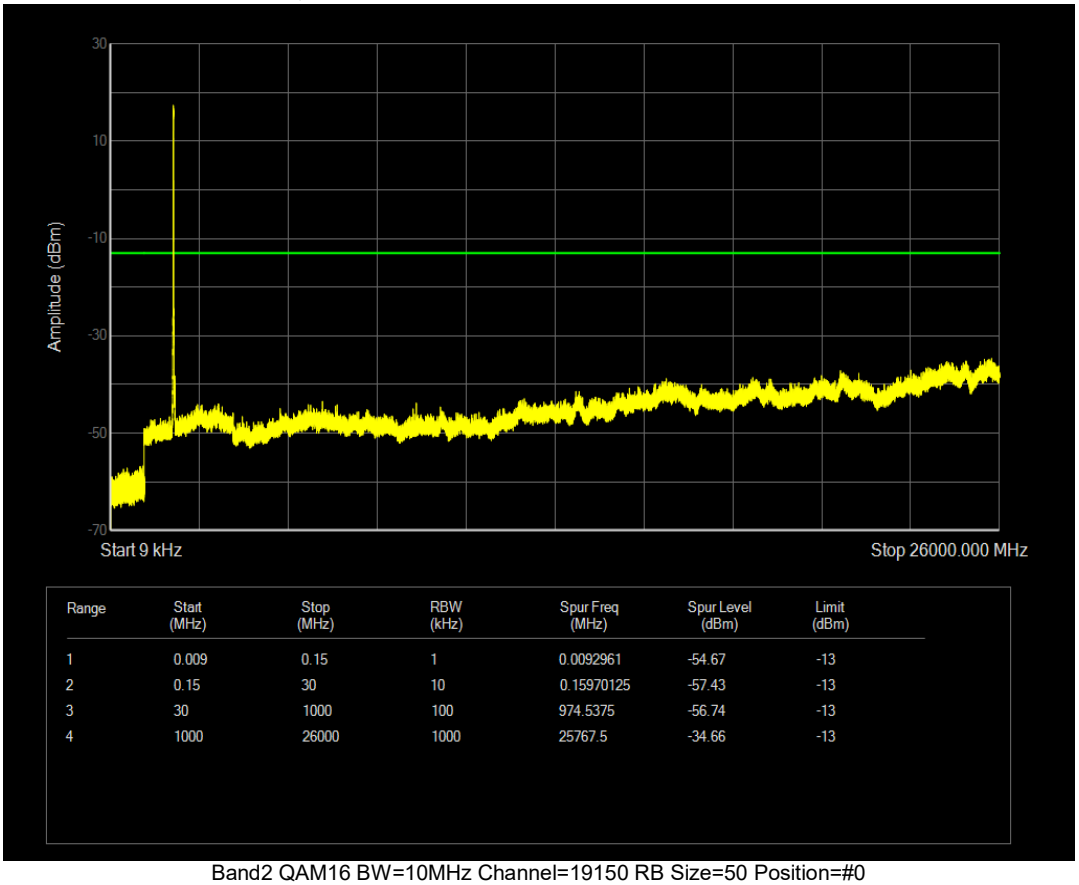


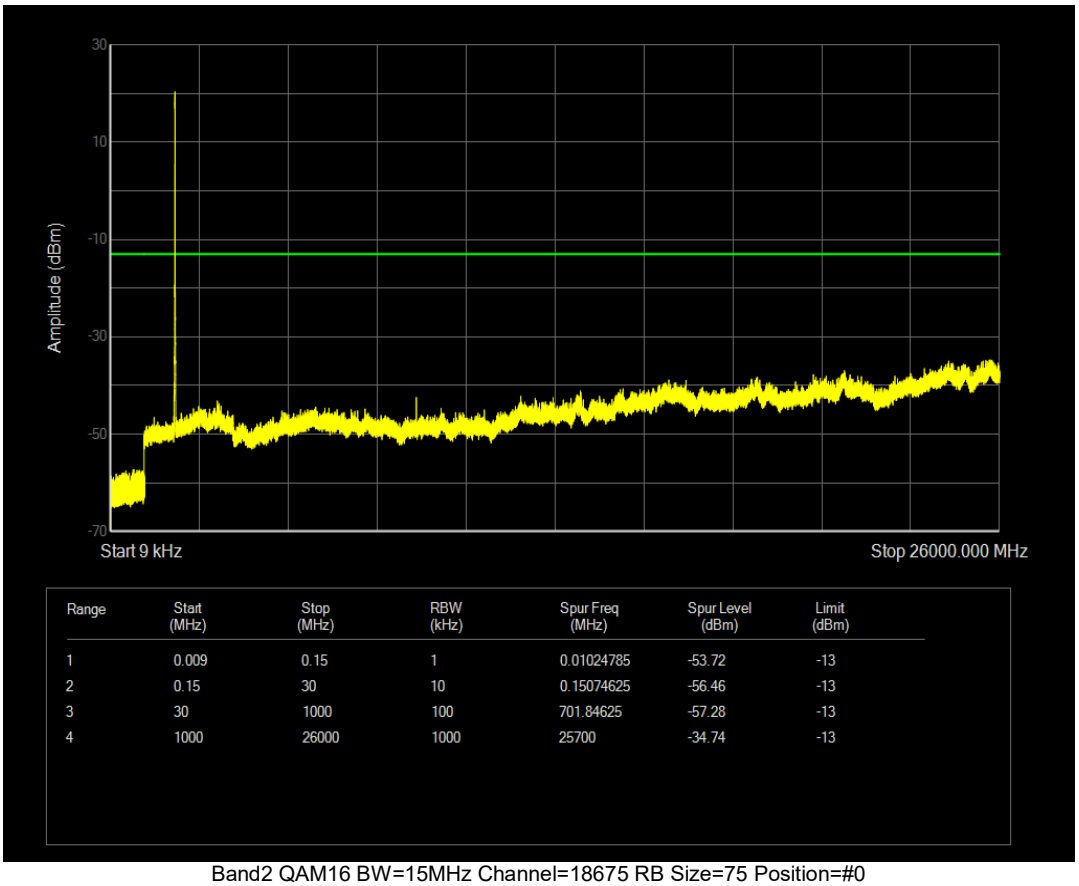

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009 | -54.53 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15522375 | -57.14 | -13 |
| 3 | 30 | 1000 | 100 | 845.673 | -57.48 | -13 |
| 4 | 1000 | 26000 | 1000 | 24435.625 | -34.61 | -13 |

Band2 QPSK BW=15MHz Channel=18675 RB Size=75 Position=#0



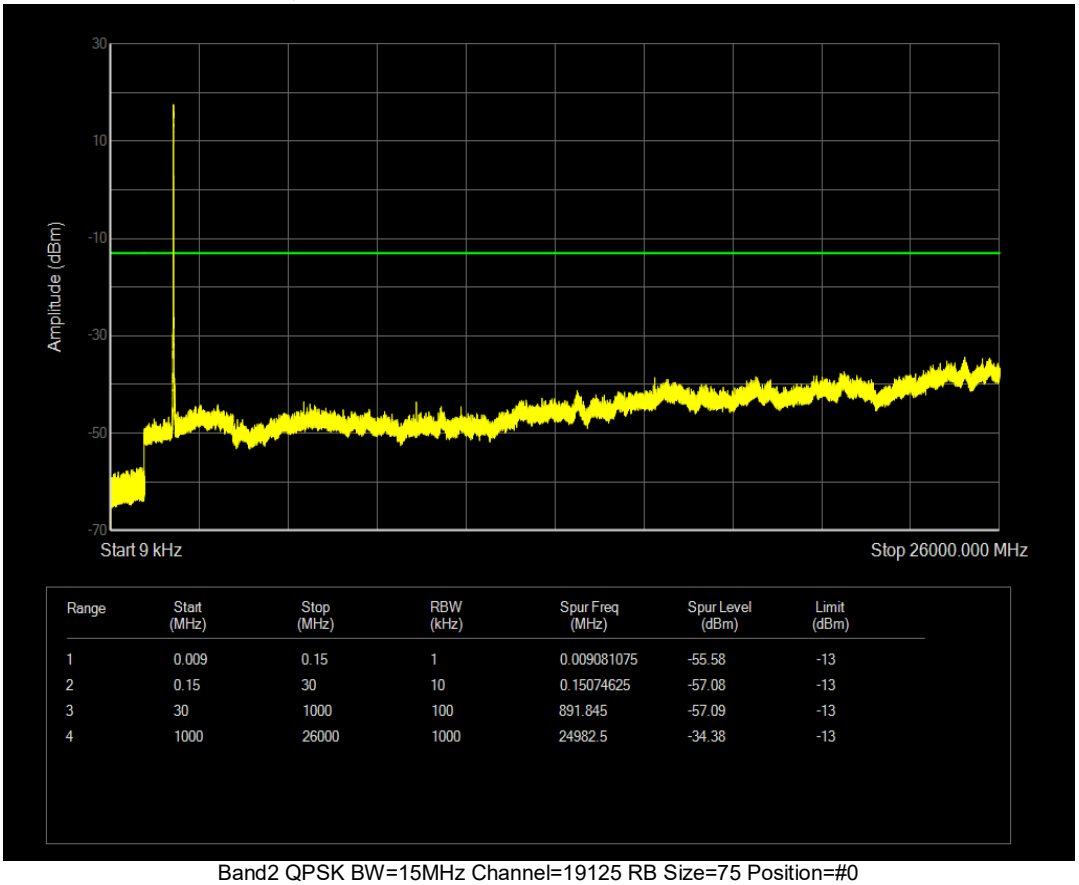

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0092961 | -54.67 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15970125 | -57.43 | -13 |
| 3 | 30 | 1000 | 100 | 974.5375 | -56.74 | -13 |
| 4 | 1000 | 26000 | 1000 | 25767.5 | -34.66 | -13 |

Band2 QAM16 BW=10MHz Channel=19150 RB Size=50 Position=#0



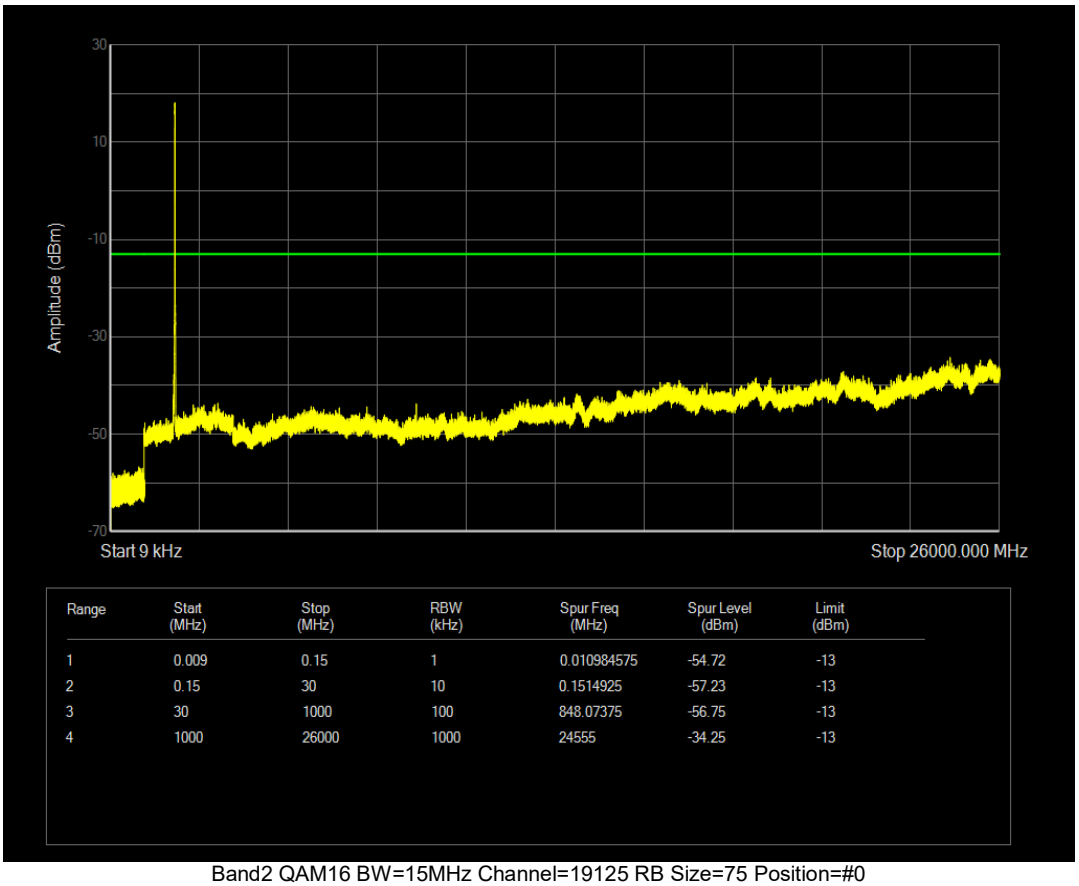

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.01024785 | -53.72 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15074625 | -56.46 | -13 |
| 3 | 30 | 1000 | 100 | 701.84625 | -57.28 | -13 |
| 4 | 1000 | 26000 | 1000 | 25700 | -34.74 | -13 |

Band2 QAM16 BW=15MHz Channel=18675 RB Size=75 Position=#0



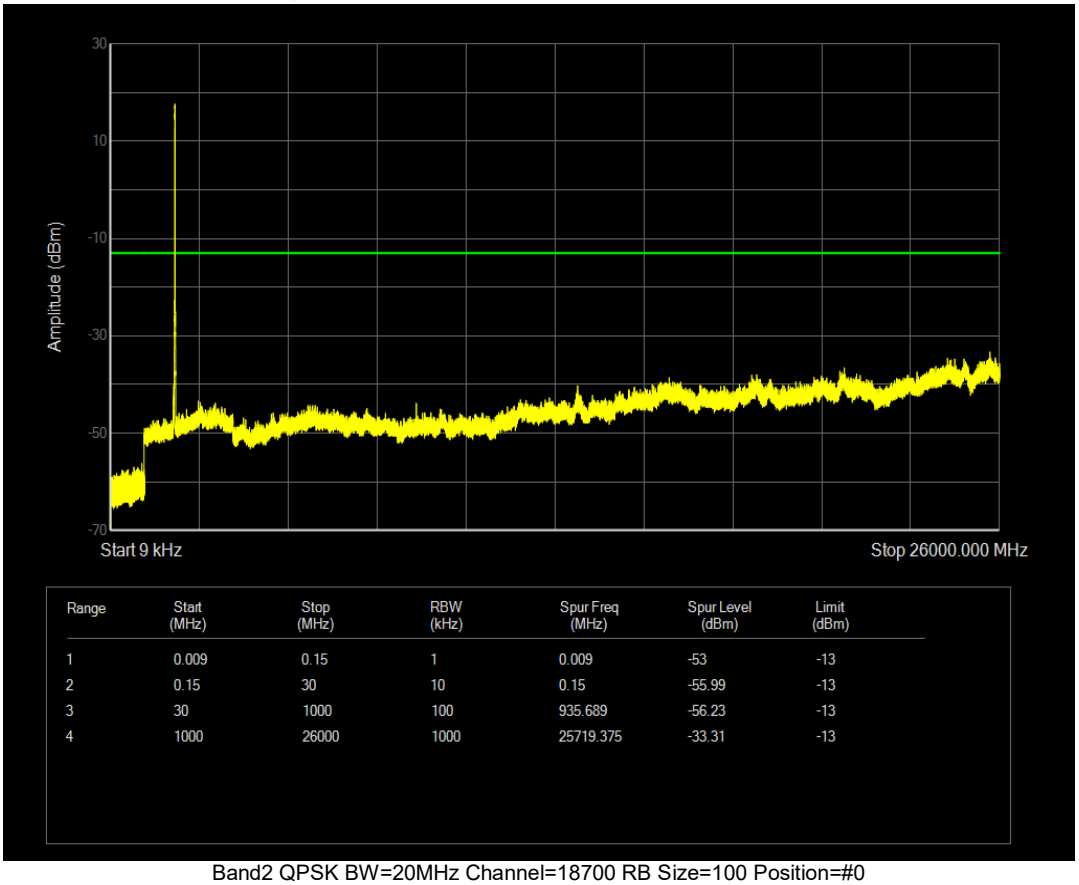

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009081075 | -55.58 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15074625 | -57.08 | -13 |
| 3 | 30 | 1000 | 100 | 891.845 | -57.09 | -13 |
| 4 | 1000 | 26000 | 1000 | 24982.5 | -34.38 | -13 |

Band2 QPSK BW=15MHz Channel=19125 RB Size=75 Position=#0



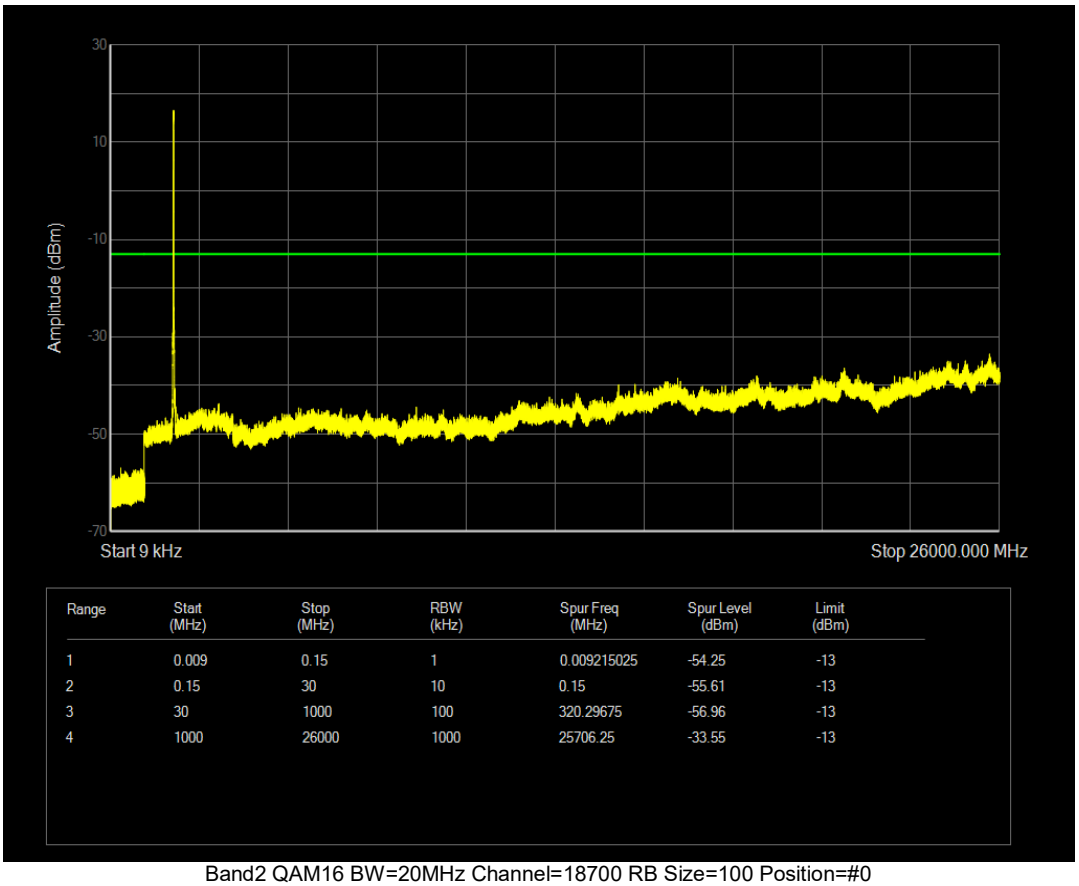

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.010984575 | -54.72 | -13 |
| 2 | 0.15 | 30 | 10 | 0.1514925 | -57.23 | -13 |
| 3 | 30 | 1000 | 100 | 848.07375 | -56.75 | -13 |
| 4 | 1000 | 26000 | 1000 | 24555 | -34.25 | -13 |

Band2 QAM16 BW=15MHz Channel=19125 RB Size=75 Position=#0



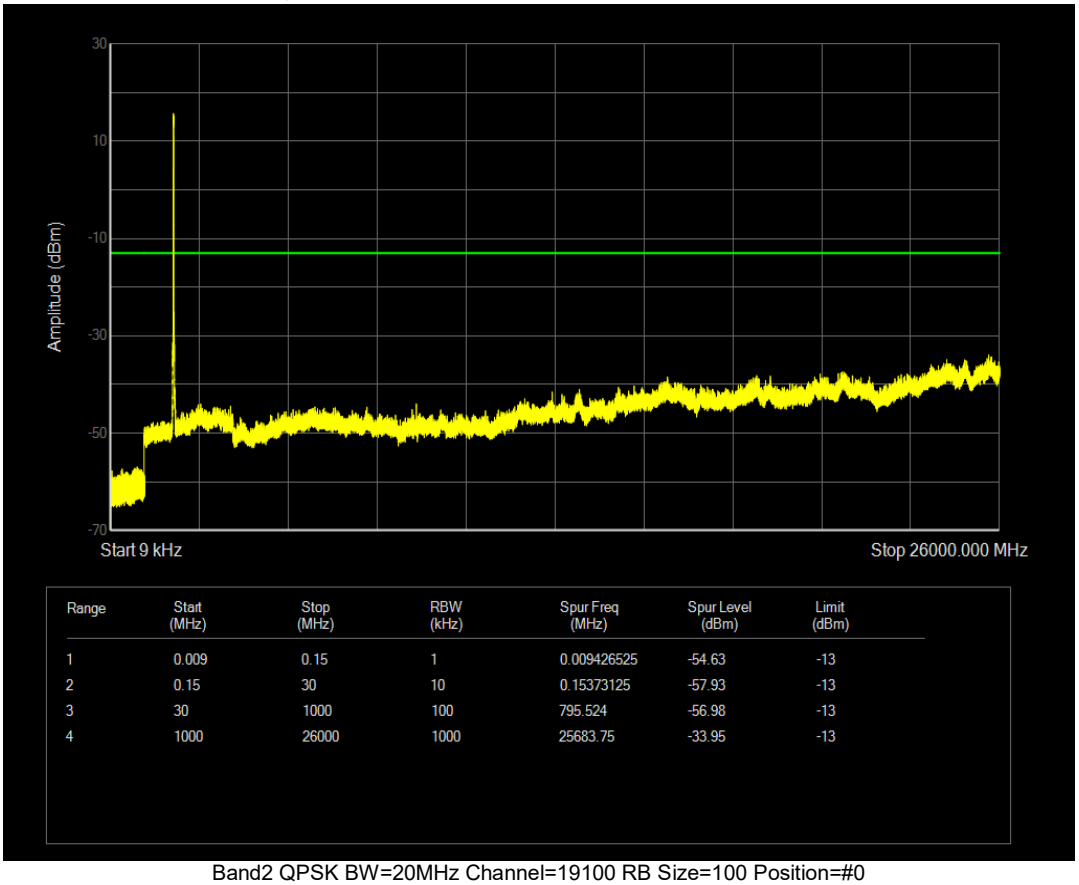

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009 | -53 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -55.99 | -13 |
| 3 | 30 | 1000 | 100 | 935.689 | -56.23 | -13 |
| 4 | 1000 | 26000 | 1000 | 25719.375 | -33.31 | -13 |

Band2 QPSK BW=20MHz Channel=18700 RB Size=100 Position=#0



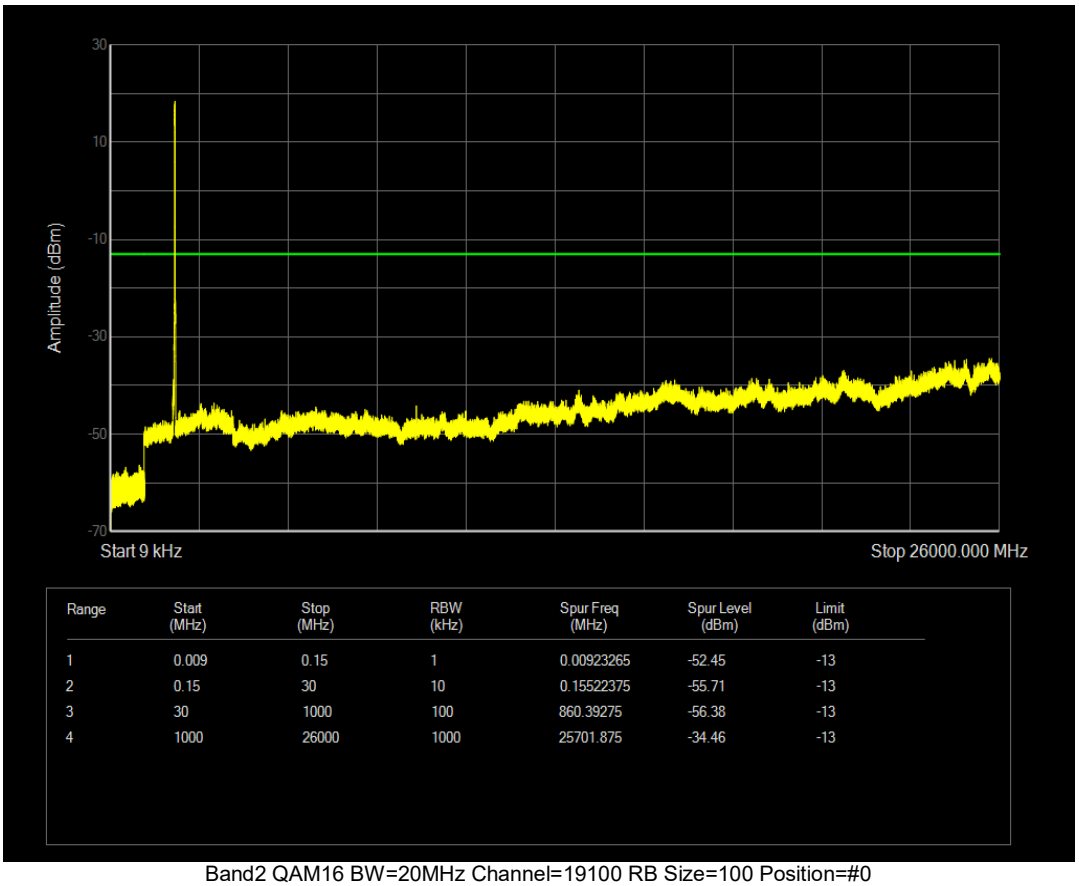

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009215025 | -54.25 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -55.61 | -13 |
| 3 | 30 | 1000 | 100 | 320.29675 | -56.96 | -13 |
| 4 | 1000 | 26000 | 1000 | 25706.25 | -33.55 | -13 |

Band2 QAM16 BW=20MHz Channel=18700 RB Size=100 Position=#0



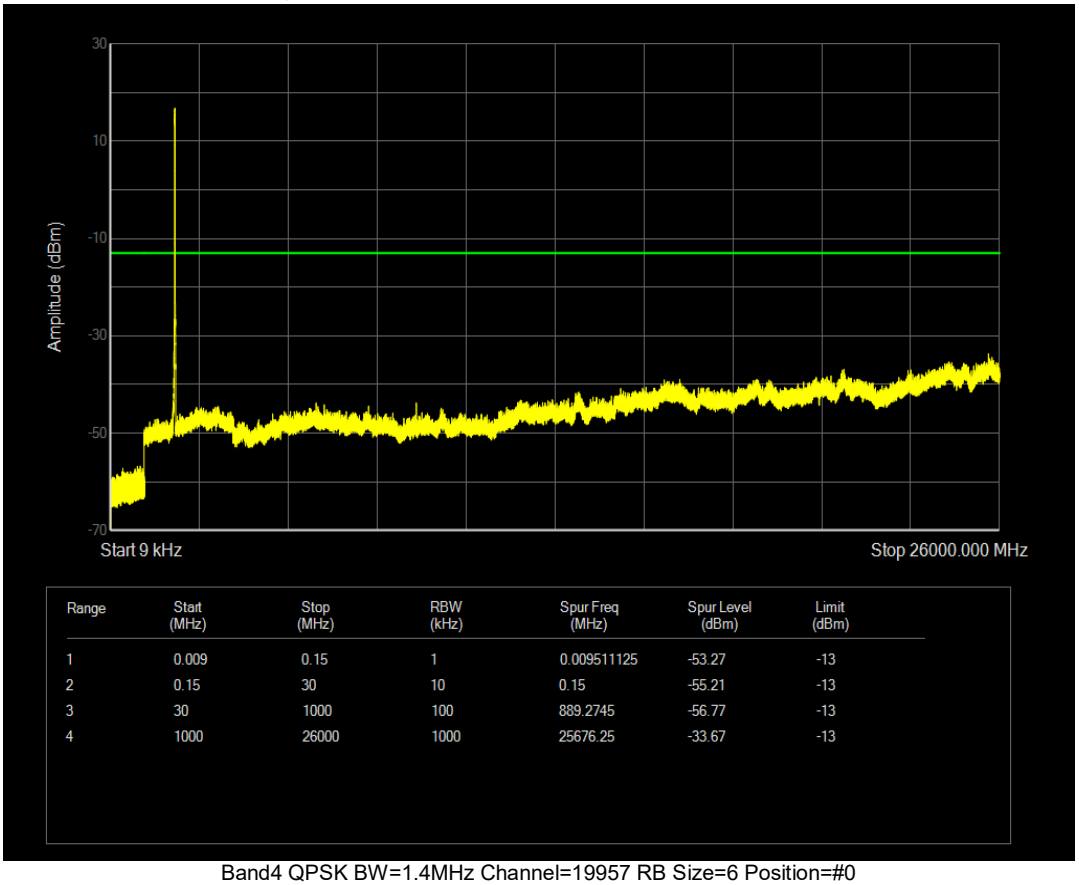

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009426525 | -54.63 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15373125 | -57.93 | -13 |
| 3 | 30 | 1000 | 100 | 795.524 | -56.98 | -13 |
| 4 | 1000 | 26000 | 1000 | 25683.75 | -33.95 | -13 |

Band2 QPSK BW=20MHz Channel=19100 RB Size=100 Position=#0



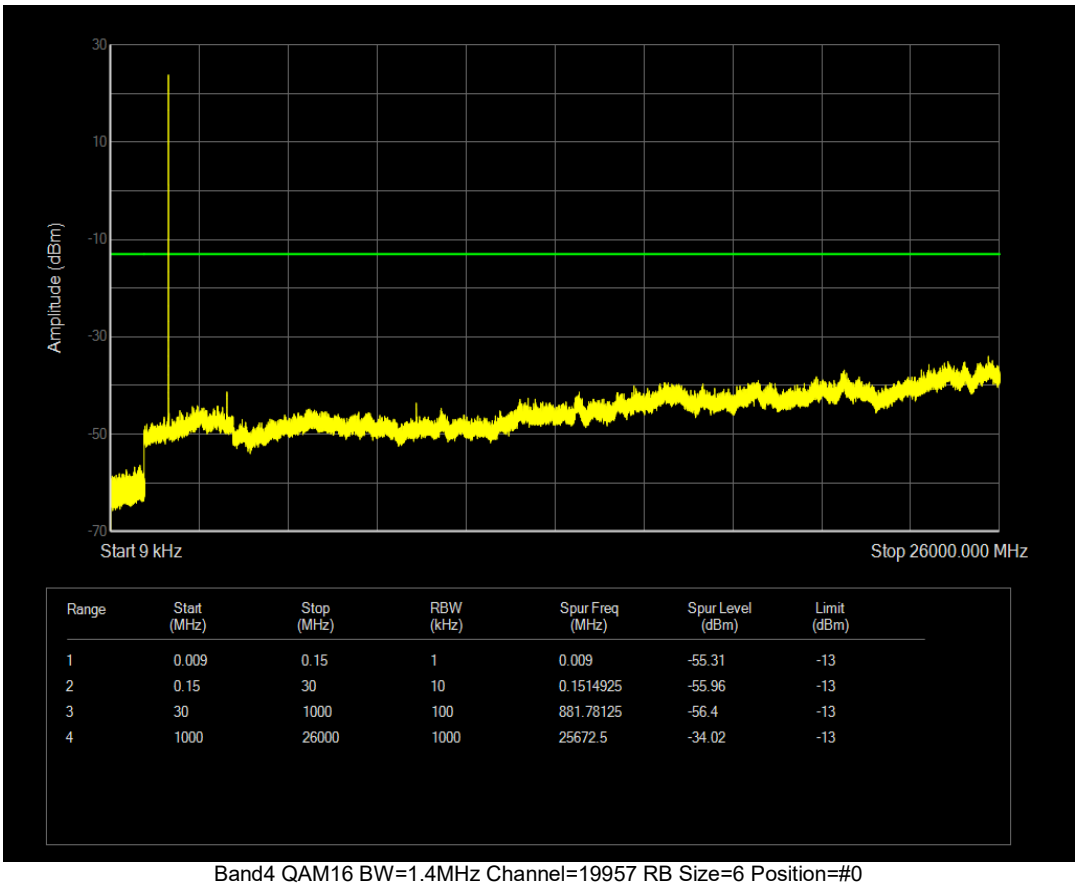

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.00923265 | -52.45 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15522375 | -55.71 | -13 |
| 3 | 30 | 1000 | 100 | 860.39275 | -56.38 | -13 |
| 4 | 1000 | 26000 | 1000 | 25701.875 | -34.46 | -13 |

Band2 QAM16 BW=20MHz Channel=19100 RB Size=100 Position=#0



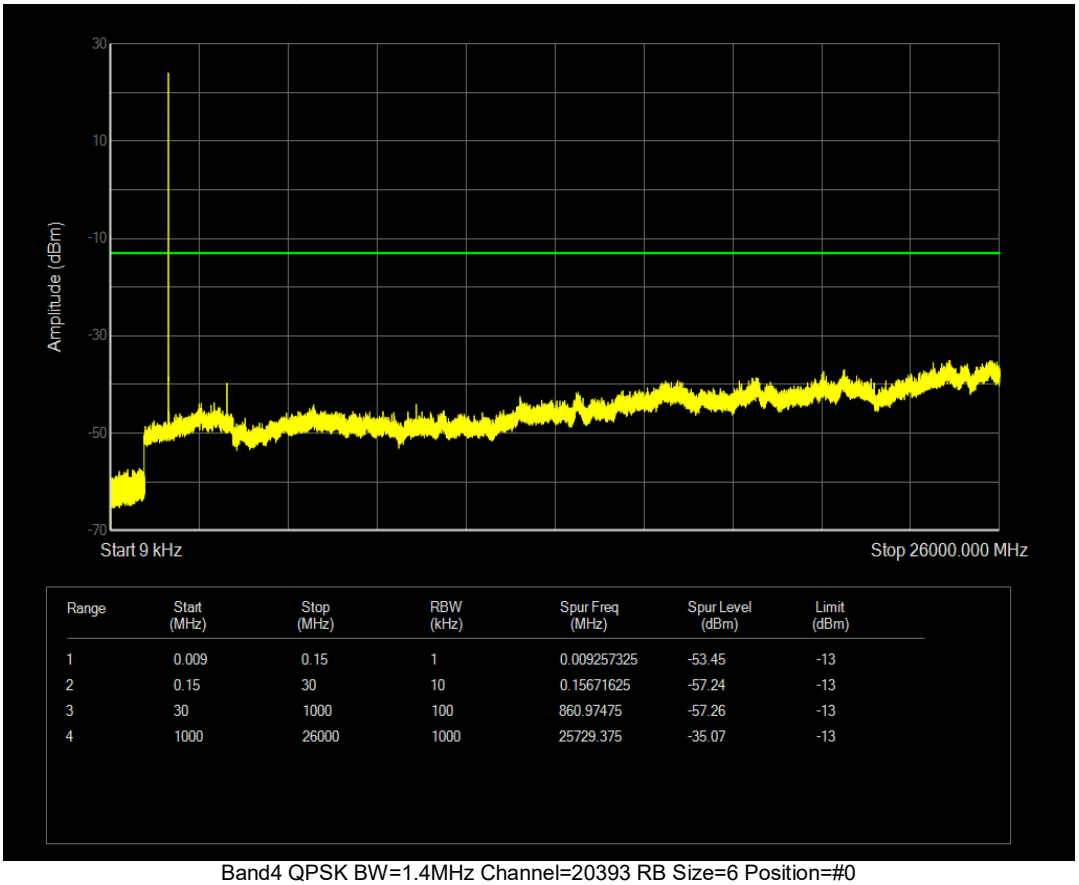

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009511125 | -53.27 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -55.21 | -13 |
| 3 | 30 | 1000 | 100 | 889.2745 | -56.77 | -13 |
| 4 | 1000 | 26000 | 1000 | 25676.25 | -33.67 | -13 |

Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0



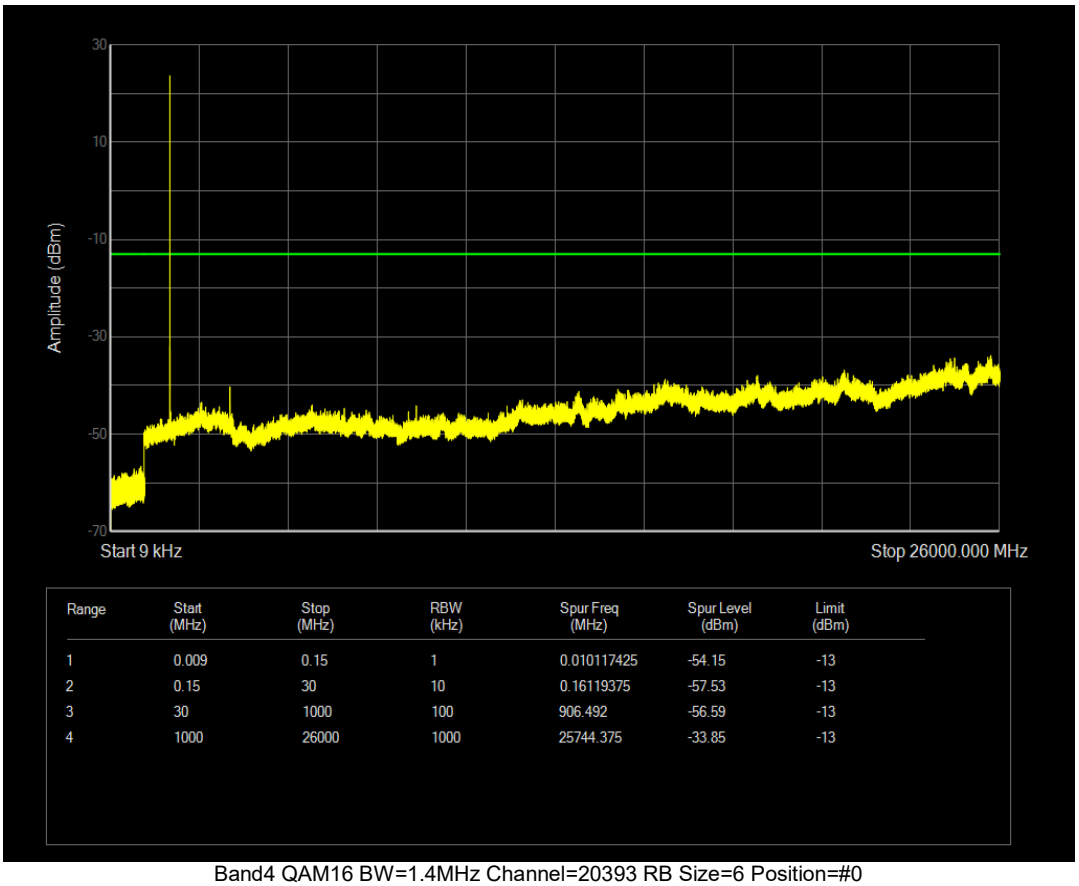

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009 | -55.31 | -13 |
| 2 | 0.15 | 30 | 10 | 0.1514925 | -55.96 | -13 |
| 3 | 30 | 1000 | 100 | 881.78125 | -56.4 | -13 |
| 4 | 1000 | 26000 | 1000 | 25672.5 | -34.02 | -13 |

Band4 QAM16 BW=1.4MHz Channel=19957 RB Size=6 Position=#0



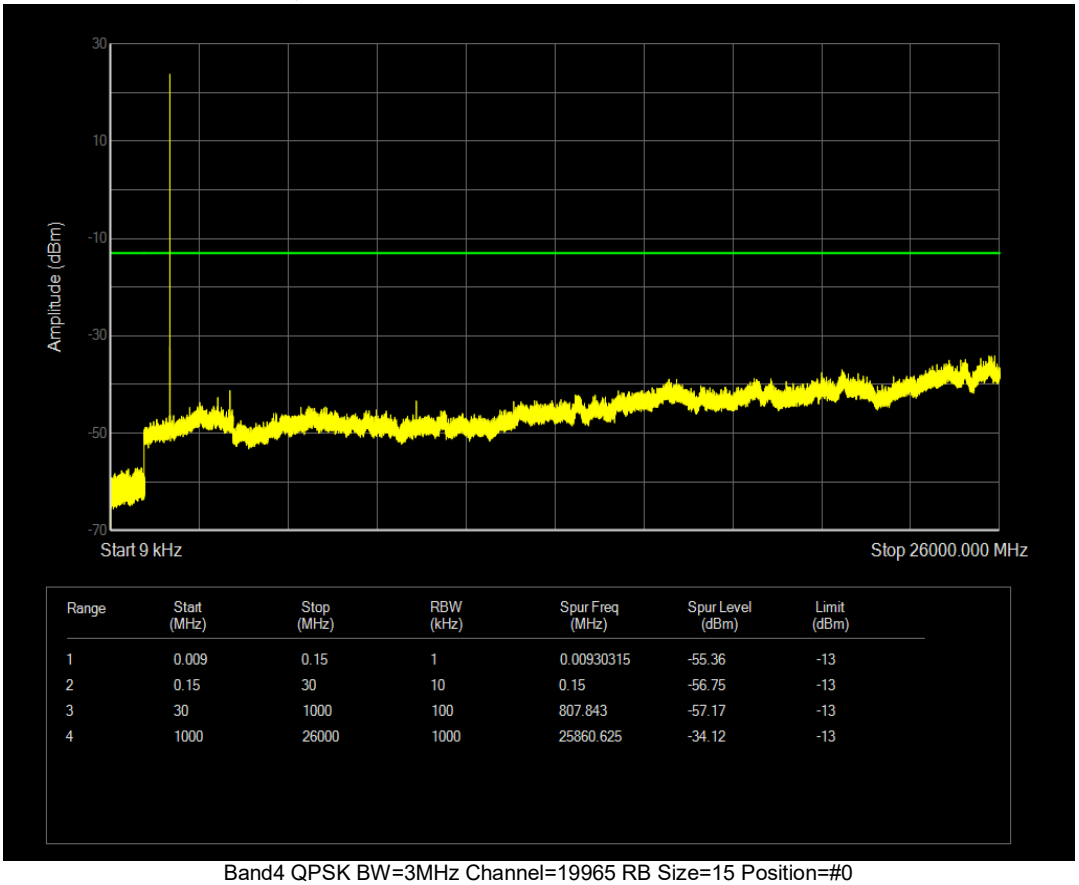

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009257325 | -53.45 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15671625 | -57.24 | -13 |
| 3 | 30 | 1000 | 100 | 860.97475 | -57.26 | -13 |
| 4 | 1000 | 26000 | 1000 | 25729.375 | -35.07 | -13 |

Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0



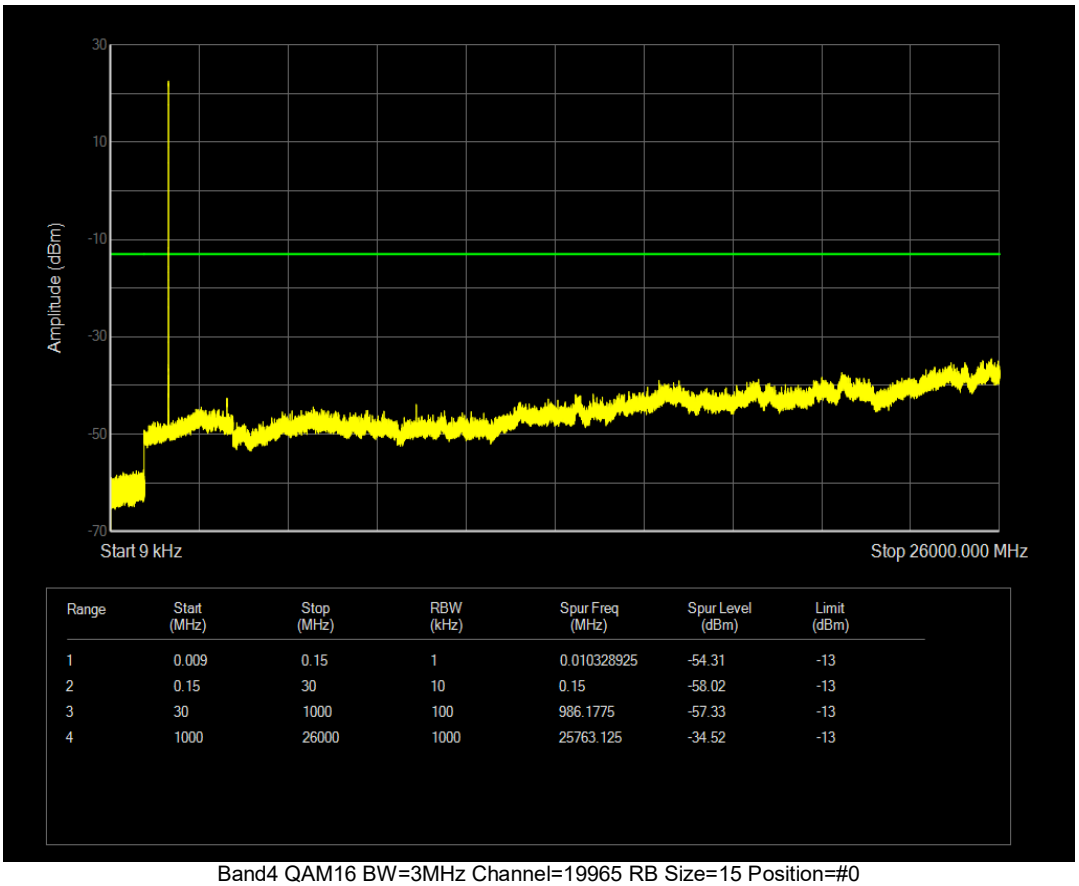

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.010117425 | -54.15 | -13 |
| 2 | 0.15 | 30 | 10 | 0.16119375 | -57.53 | -13 |
| 3 | 30 | 1000 | 100 | 906.492 | -56.59 | -13 |
| 4 | 1000 | 26000 | 1000 | 25744.375 | -33.85 | -13 |

Band4 QAM16 BW=1.4MHz Channel=20393 RB Size=6 Position=#0



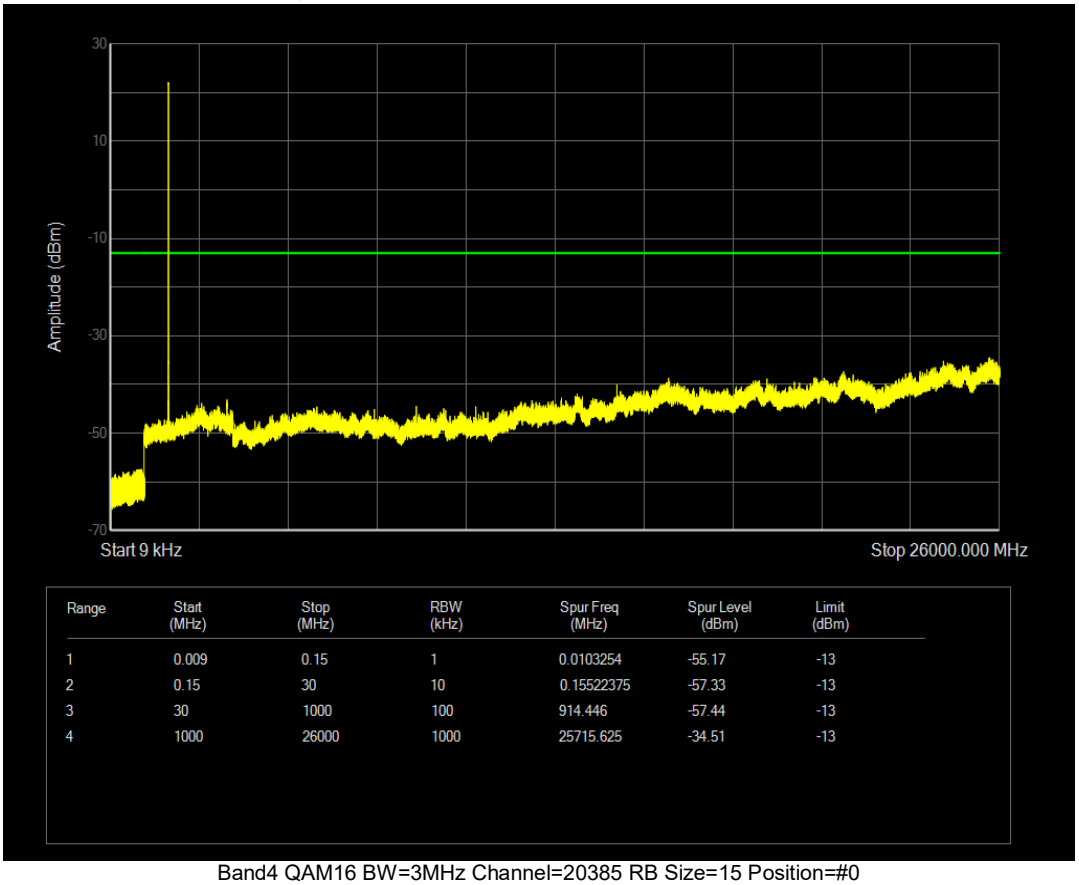

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.00930315 | -55.36 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -56.75 | -13 |
| 3 | 30 | 1000 | 100 | 807.843 | -57.17 | -13 |
| 4 | 1000 | 26000 | 1000 | 25860.625 | -34.12 | -13 |

Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0



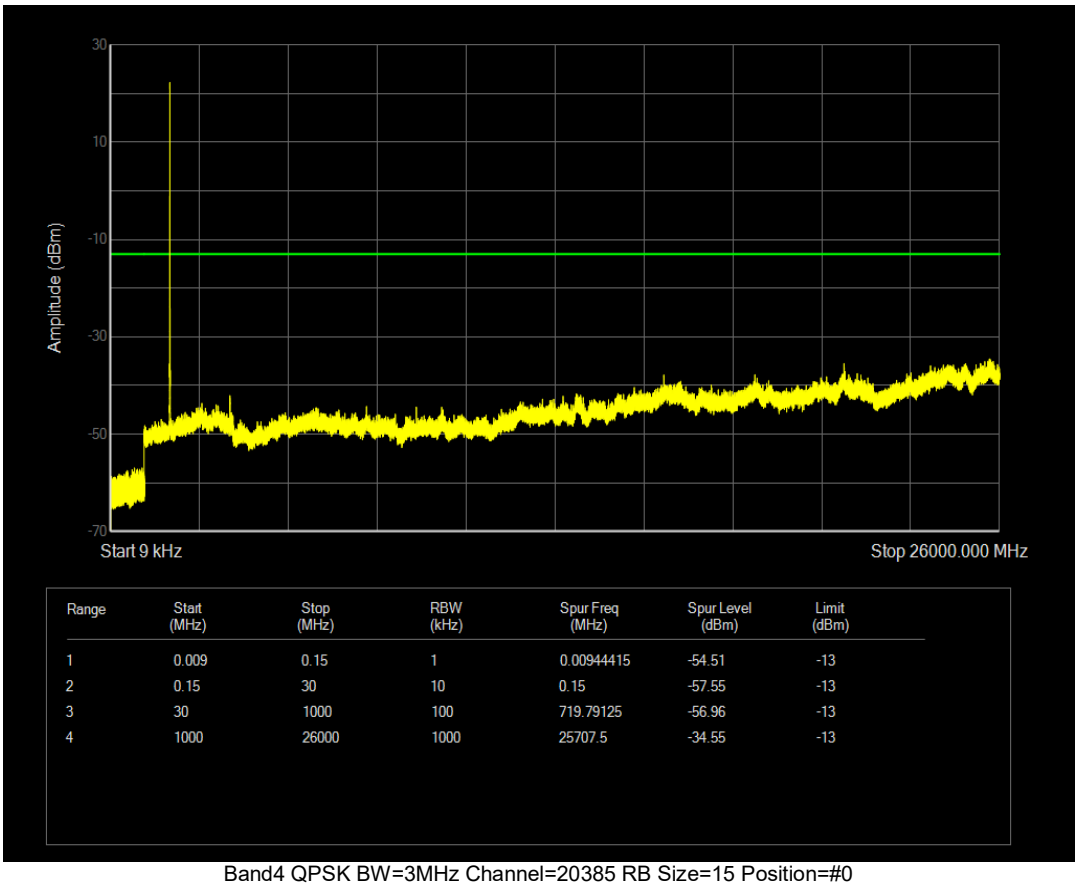

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.010328925 | -54.31 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -58.02 | -13 |
| 3 | 30 | 1000 | 100 | 986.1775 | -57.33 | -13 |
| 4 | 1000 | 26000 | 1000 | 25763.125 | -34.52 | -13 |

Band4 QAM16 BW=3MHz Channel=19965 RB Size=15 Position=#0



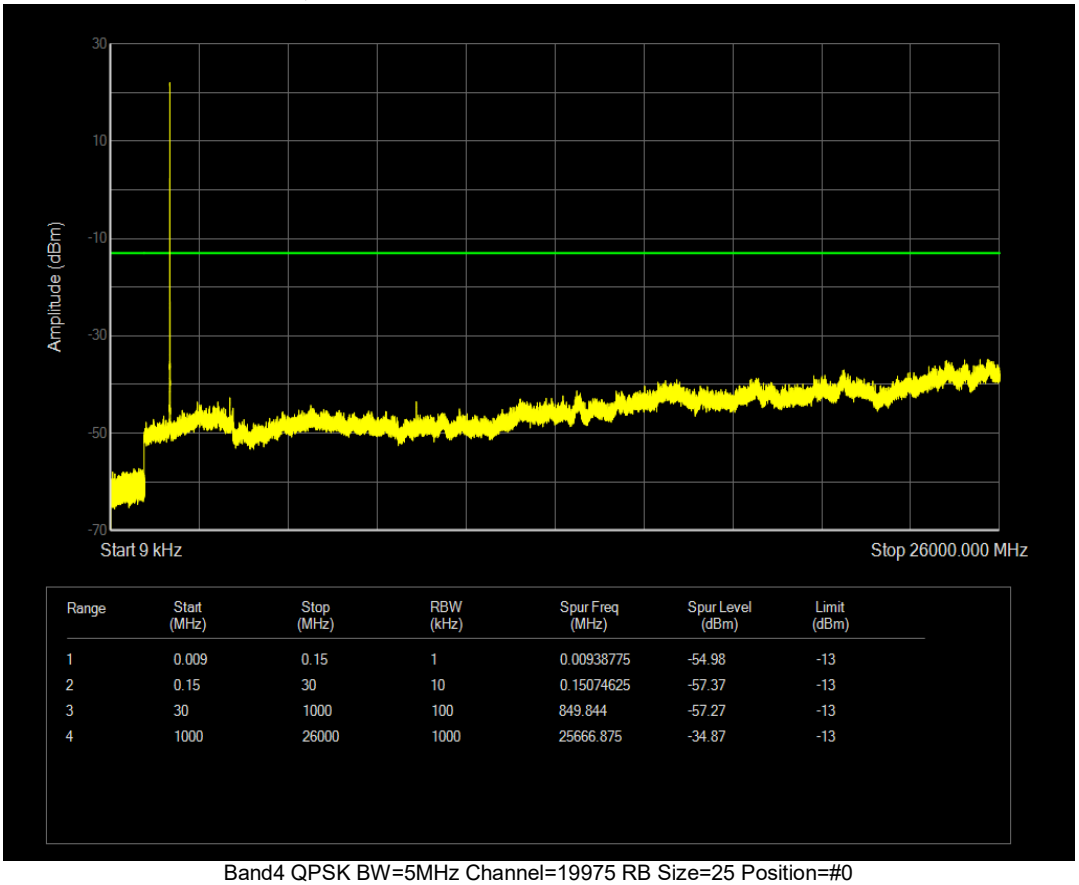

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0103254 | -55.17 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15522375 | -57.33 | -13 |
| 3 | 30 | 1000 | 100 | 914.446 | -57.44 | -13 |
| 4 | 1000 | 26000 | 1000 | 25715.625 | -34.51 | -13 |

Band4 QAM16 BW=3MHz Channel=20385 RB Size=15 Position=#0



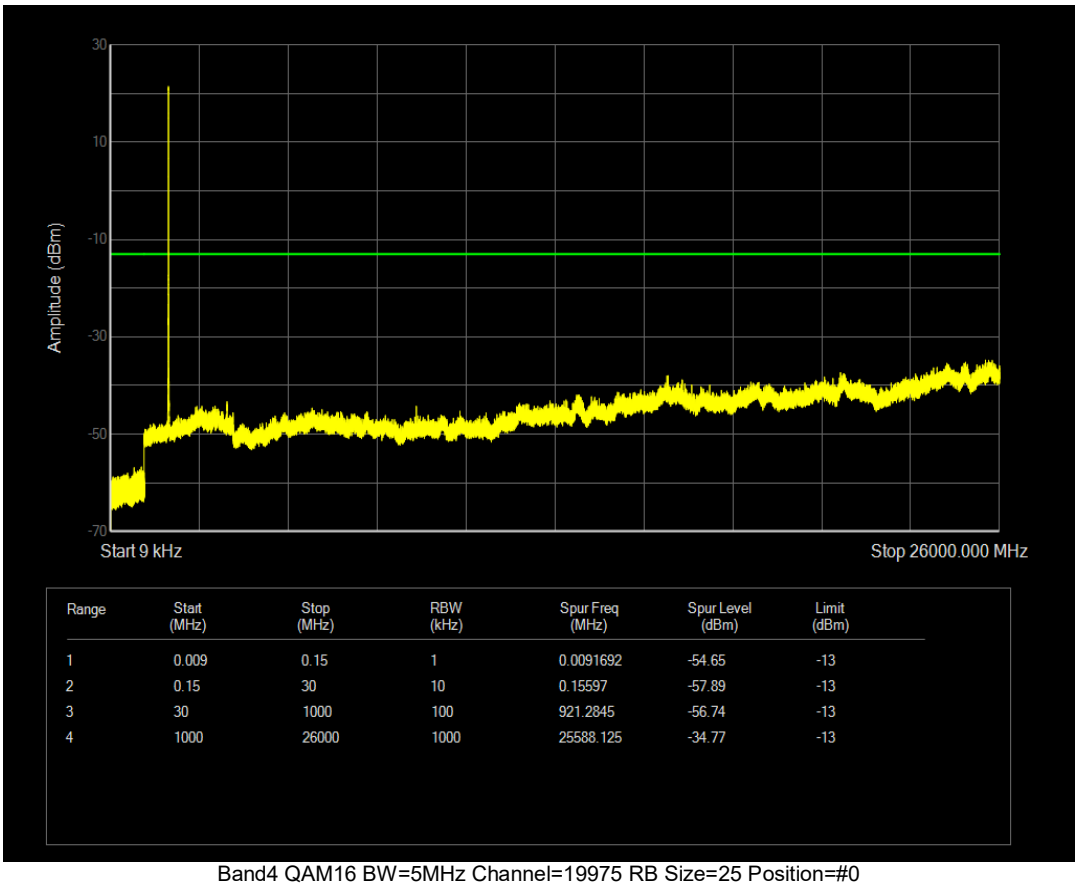

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.00944415 | -54.51 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -57.55 | -13 |
| 3 | 30 | 1000 | 100 | 719.79125 | -56.96 | -13 |
| 4 | 1000 | 26000 | 1000 | 25707.5 | -34.55 | -13 |

Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0



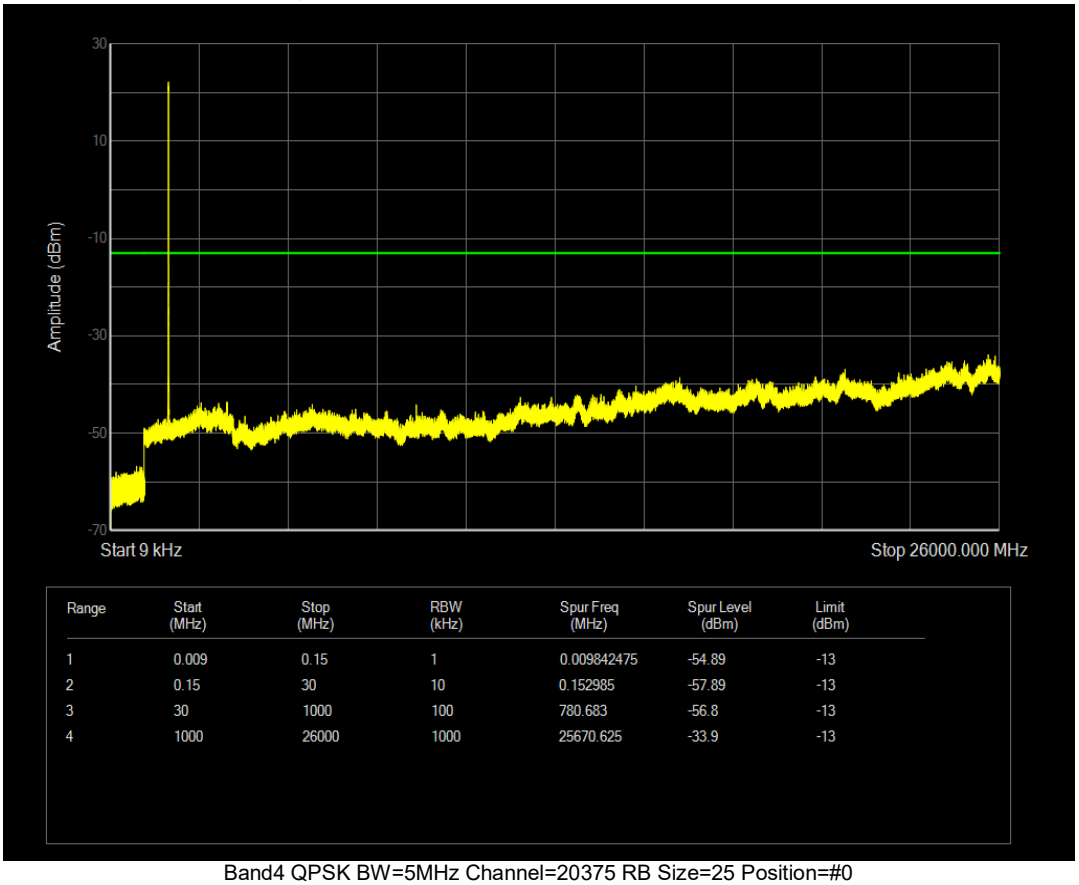

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.00938775 | -54.98 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15074625 | -57.37 | -13 |
| 3 | 30 | 1000 | 100 | 849.844 | -57.27 | -13 |
| 4 | 1000 | 26000 | 1000 | 25666.875 | -34.87 | -13 |

Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0



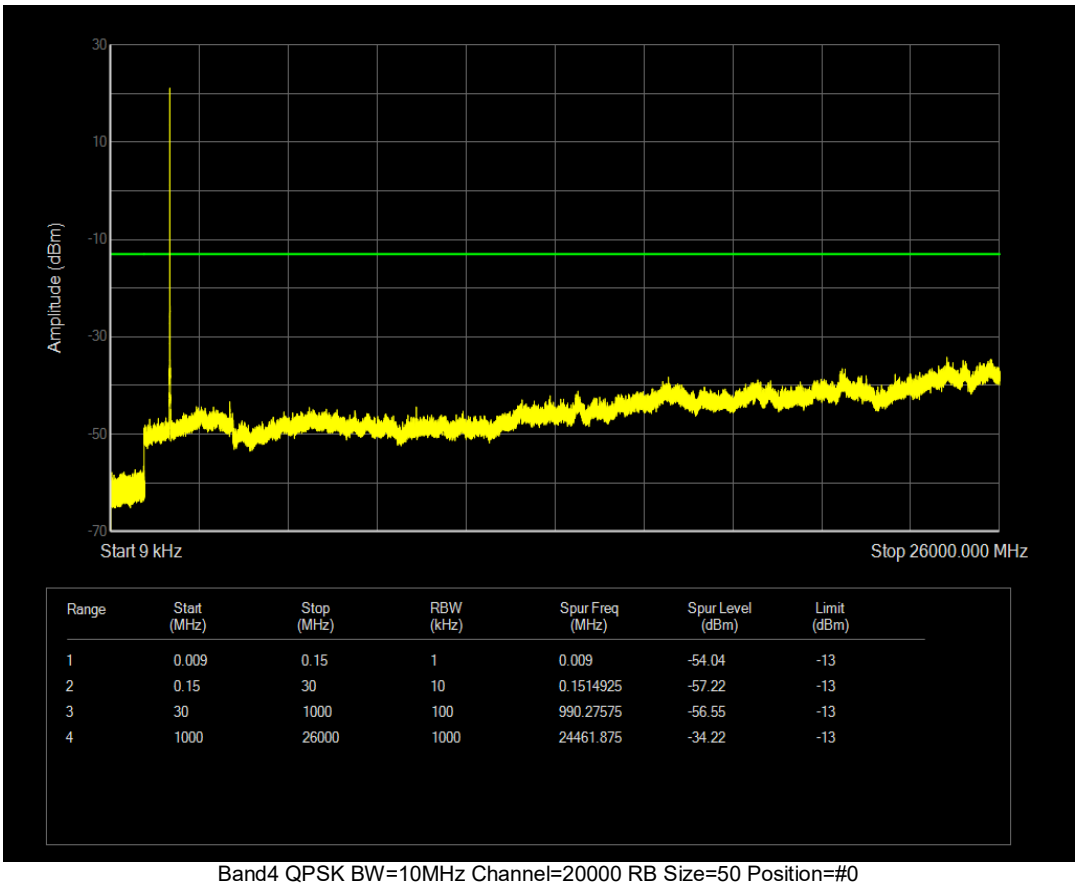

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0091692 | -54.65 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15597 | -57.89 | -13 |
| 3 | 30 | 1000 | 100 | 921.2845 | -56.74 | -13 |
| 4 | 1000 | 26000 | 1000 | 25588.125 | -34.77 | -13 |

Band4 QAM16 BW=5MHz Channel=19975 RB Size=25 Position=#0



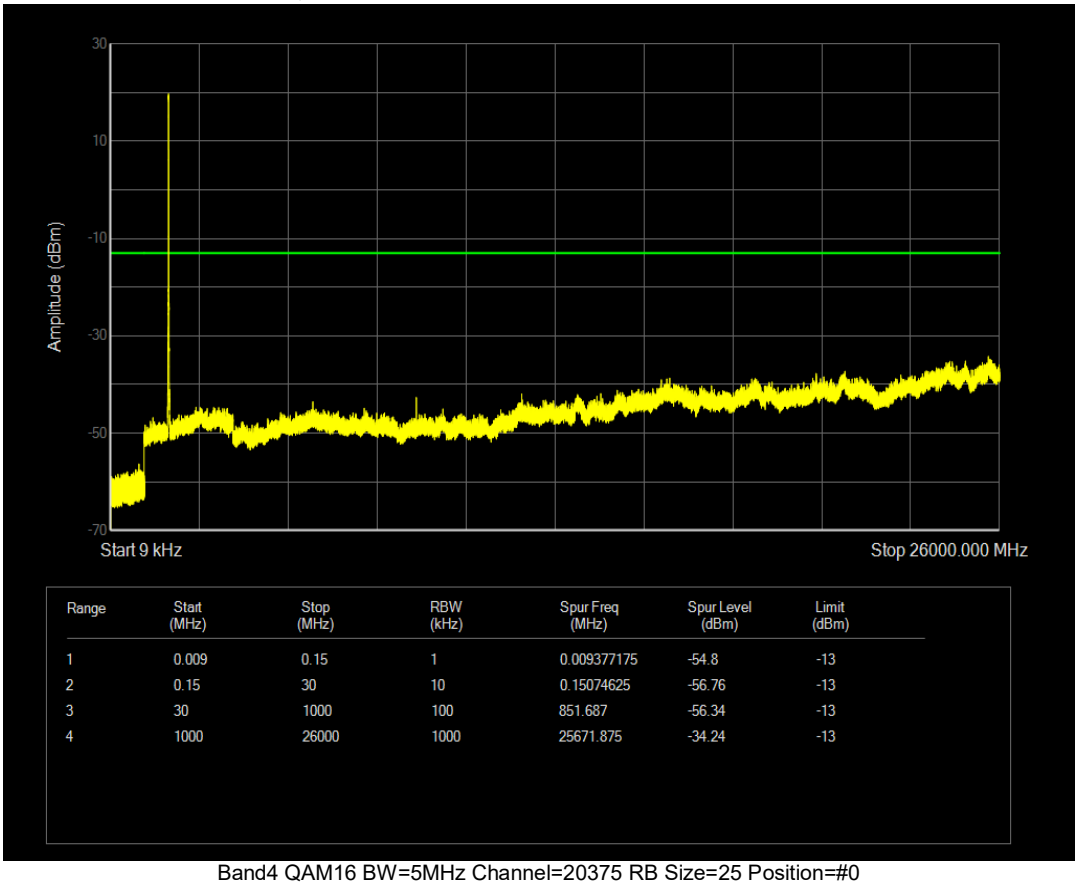

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009842475 | -54.89 | -13 |
| 2 | 0.15 | 30 | 10 | 0.152985 | -57.89 | -13 |
| 3 | 30 | 1000 | 100 | 780.683 | -56.8 | -13 |
| 4 | 1000 | 26000 | 1000 | 25670.625 | -33.9 | -13 |

Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0



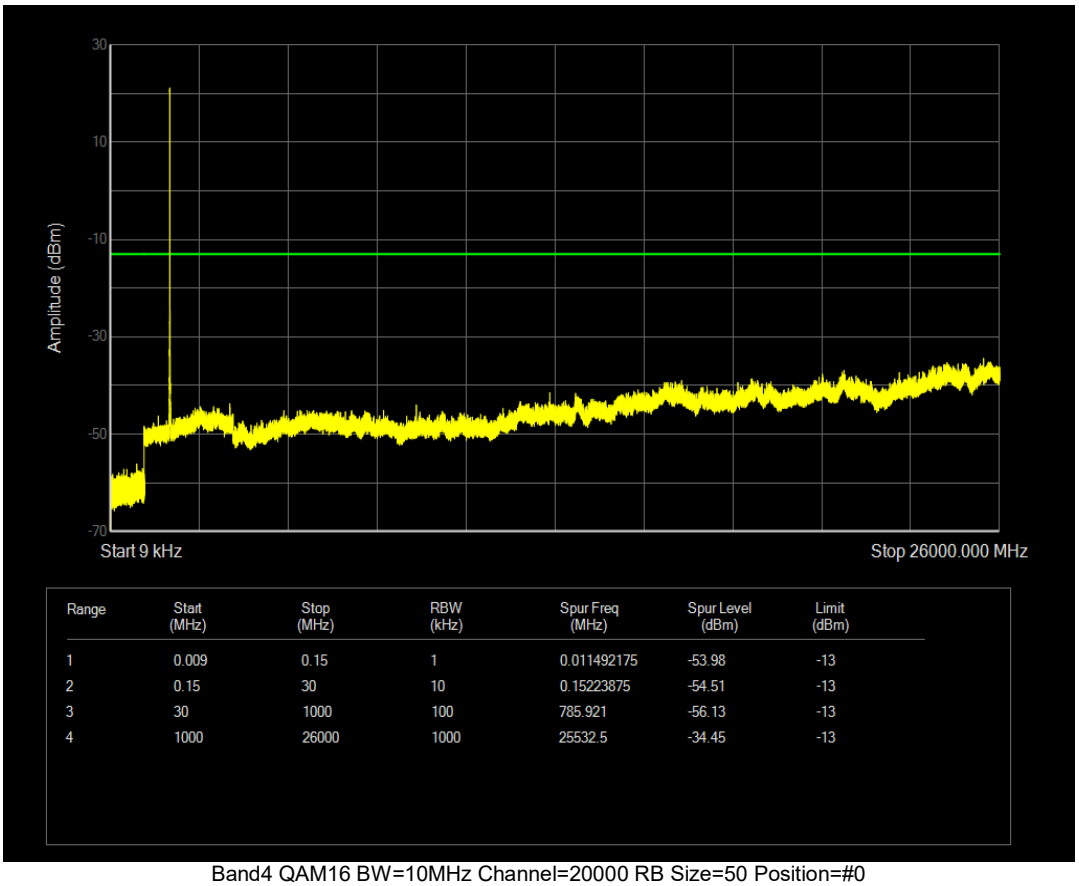

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009 | -54.04 | -13 |
| 2 | 0.15 | 30 | 10 | 0.1514925 | -57.22 | -13 |
| 3 | 30 | 1000 | 100 | 990.27575 | -56.55 | -13 |
| 4 | 1000 | 26000 | 1000 | 24461.875 | -34.22 | -13 |

Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0



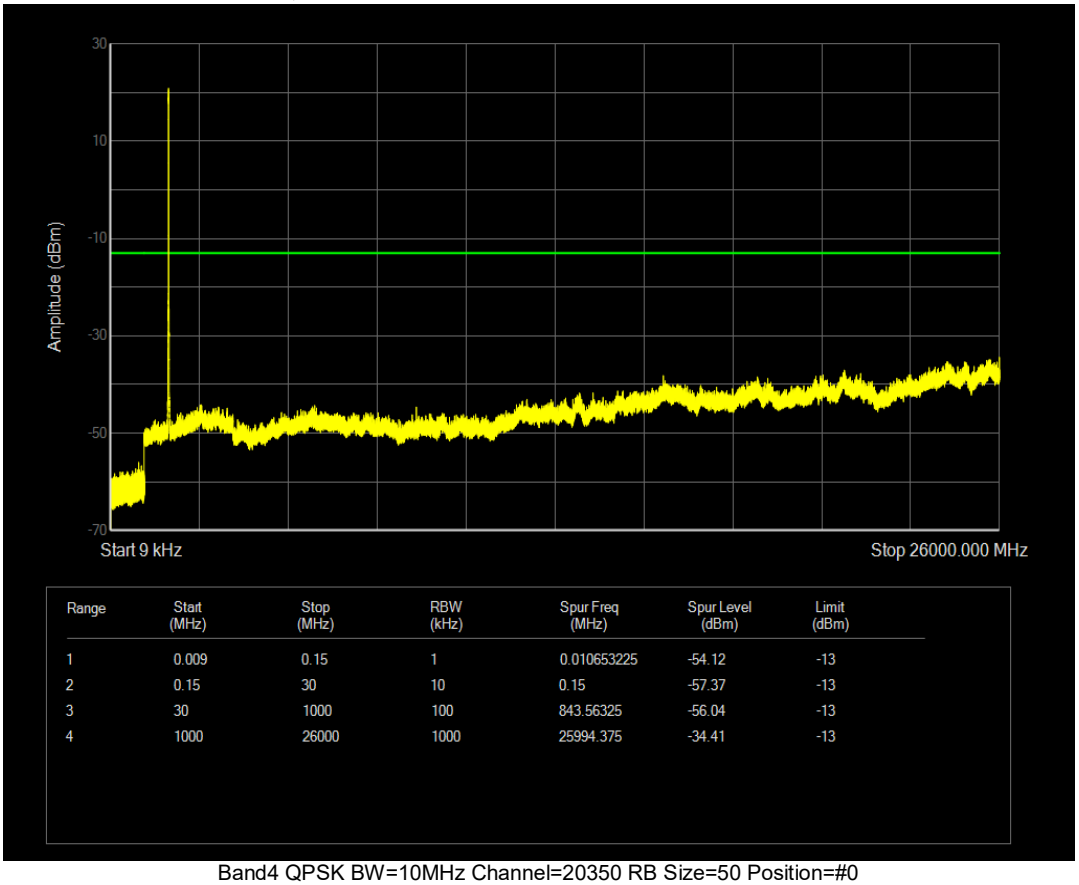

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009377175 | -54.8 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15074625 | -56.76 | -13 |
| 3 | 30 | 1000 | 100 | 851.687 | -56.34 | -13 |
| 4 | 1000 | 26000 | 1000 | 25671.875 | -34.24 | -13 |

Band4 QAM16 BW=5MHz Channel=20375 RB Size=25 Position=#0



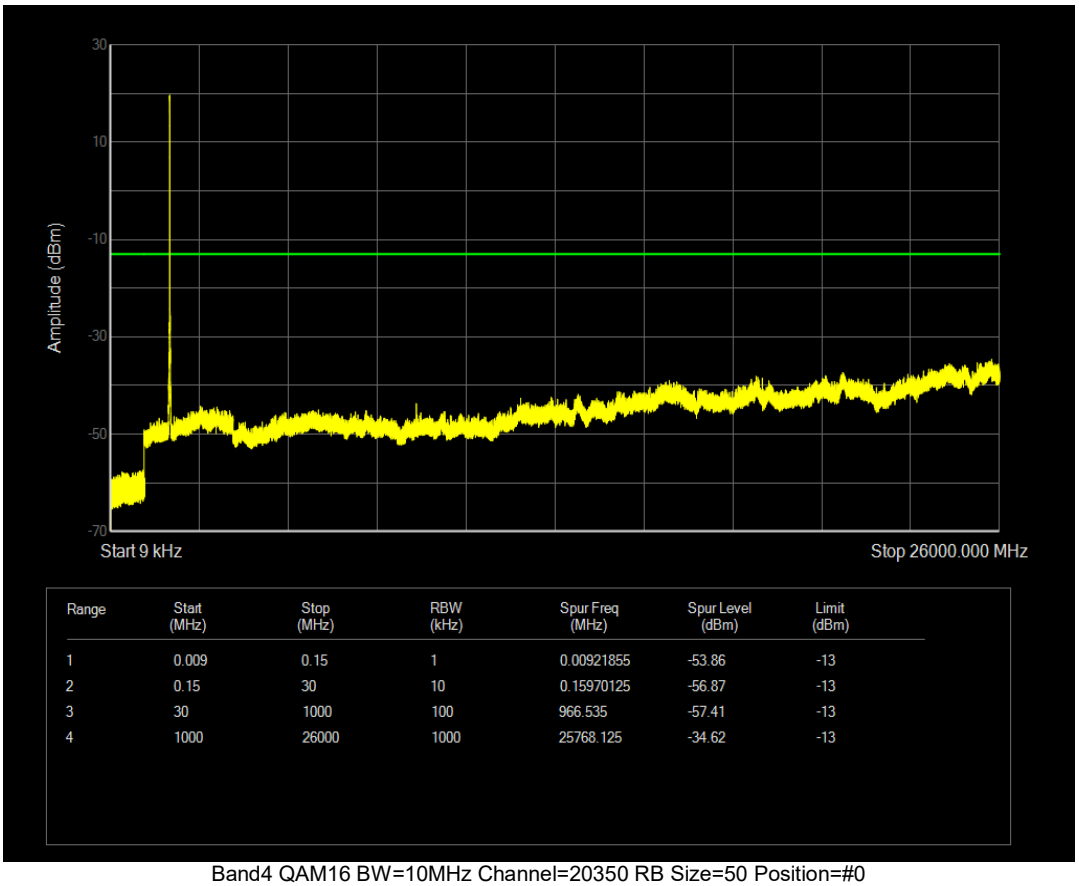

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.011492175 | -53.98 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15223875 | -54.51 | -13 |
| 3 | 30 | 1000 | 100 | 785.921 | -56.13 | -13 |
| 4 | 1000 | 26000 | 1000 | 25532.5 | -34.45 | -13 |

Band4 QAM16 BW=10MHz Channel=20000 RB Size=50 Position=#0



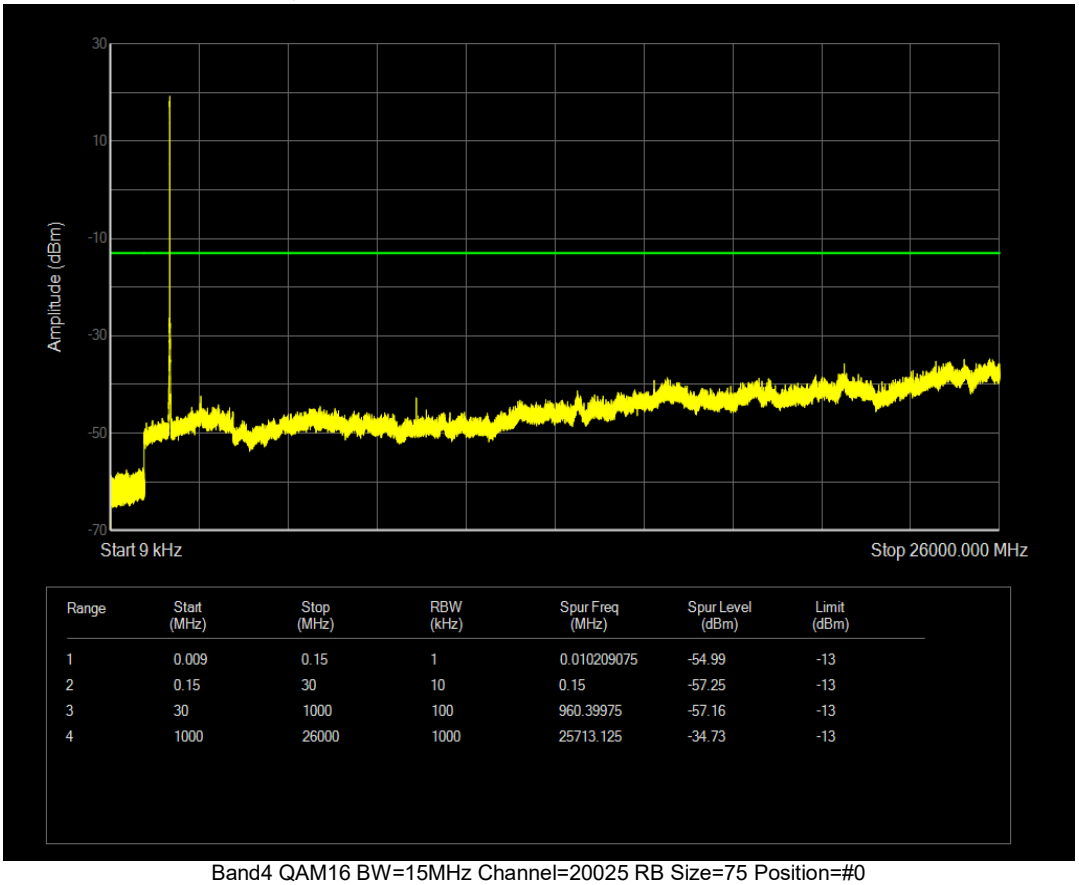

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.010653225 | -54.12 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -57.37 | -13 |
| 3 | 30 | 1000 | 100 | 843.56325 | -56.04 | -13 |
| 4 | 1000 | 26000 | 1000 | 25994.375 | -34.41 | -13 |

Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0



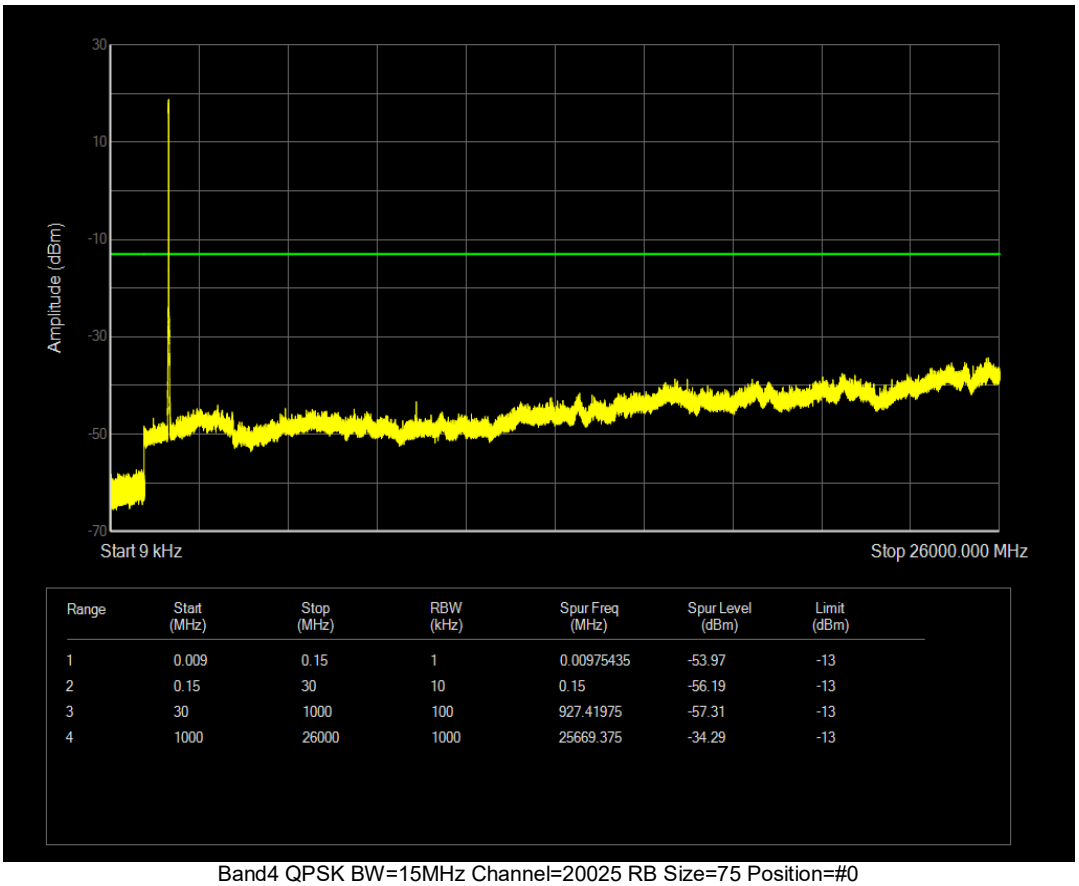

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.00921855 | -53.86 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15970125 | -56.87 | -13 |
| 3 | 30 | 1000 | 100 | 966.535 | -57.41 | -13 |
| 4 | 1000 | 26000 | 1000 | 25768.125 | -34.62 | -13 |

Band4 QAM16 BW=10MHz Channel=20350 RB Size=50 Position=#0



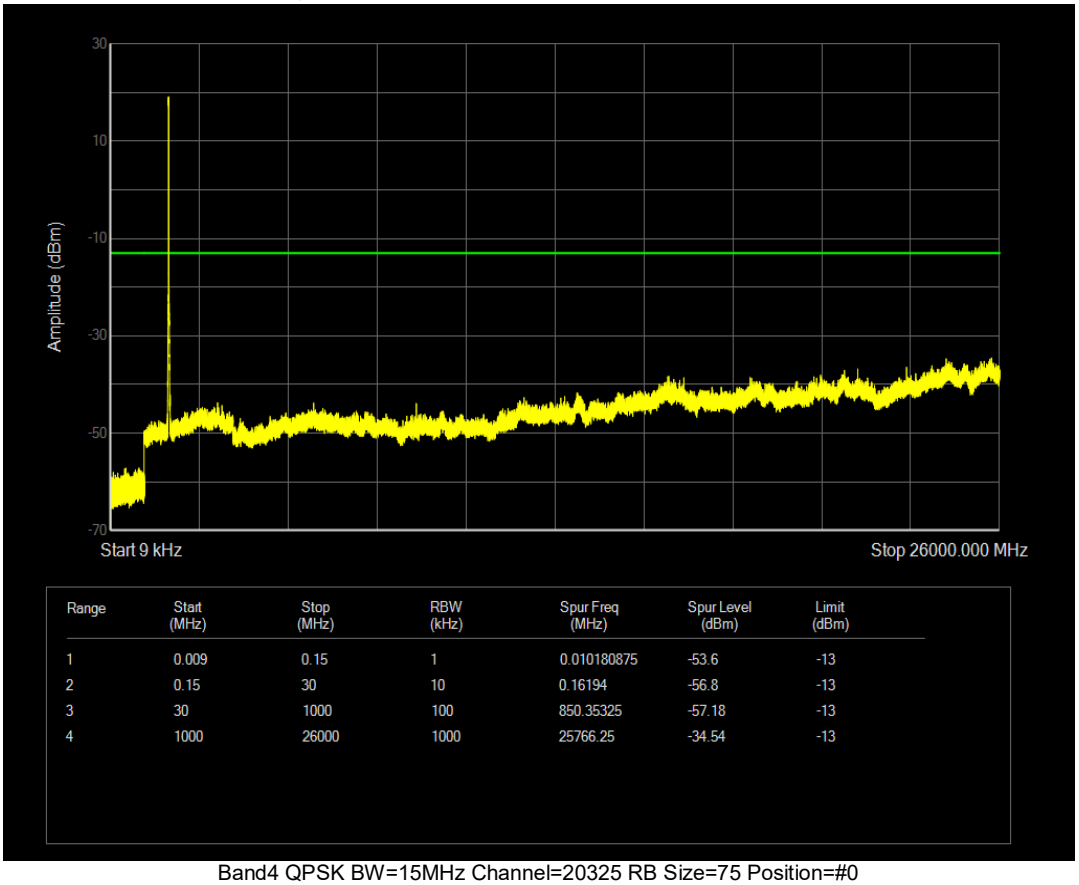

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.010209075 | -54.99 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -57.25 | -13 |
| 3 | 30 | 1000 | 100 | 960.39975 | -57.16 | -13 |
| 4 | 1000 | 26000 | 1000 | 25713.125 | -34.73 | -13 |

Band4 QAM16 BW=15MHz Channel=20025 RB Size=75 Position=#0



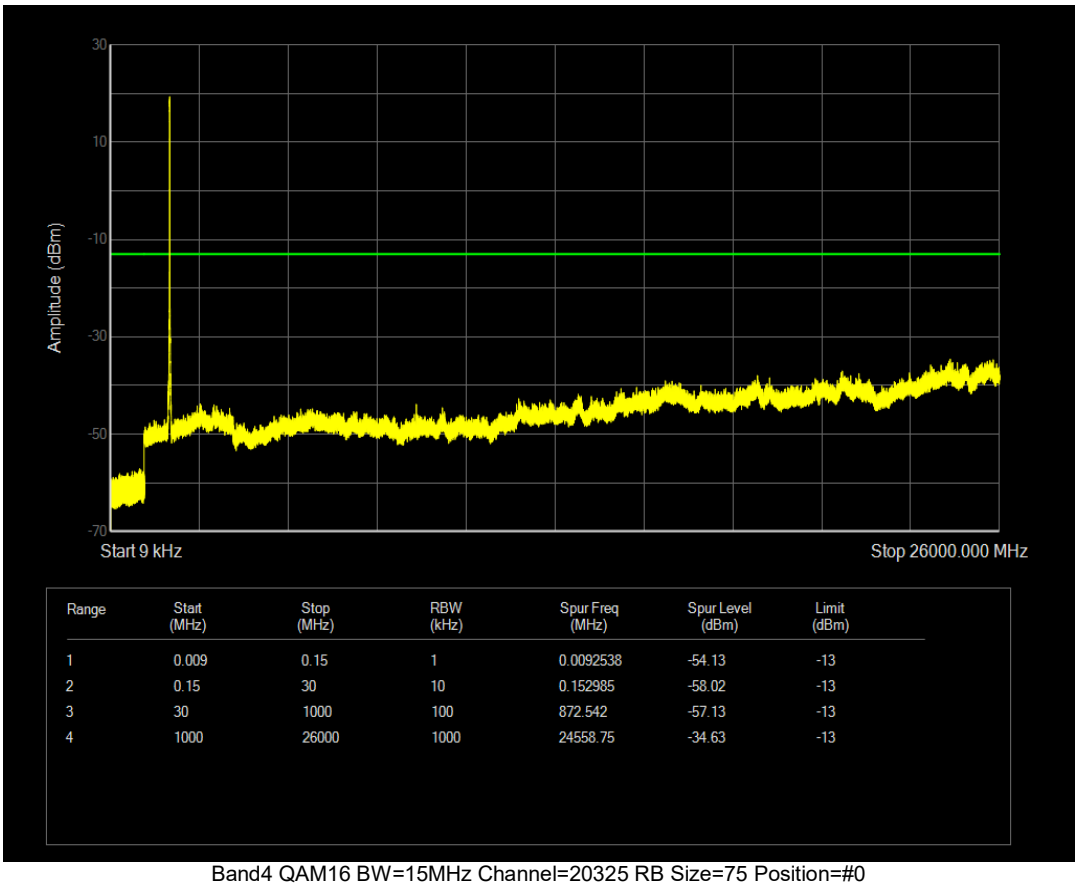

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.00975435 | -53.97 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -56.19 | -13 |
| 3 | 30 | 1000 | 100 | 927.41975 | -57.31 | -13 |
| 4 | 1000 | 26000 | 1000 | 25669.375 | -34.29 | -13 |

Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0



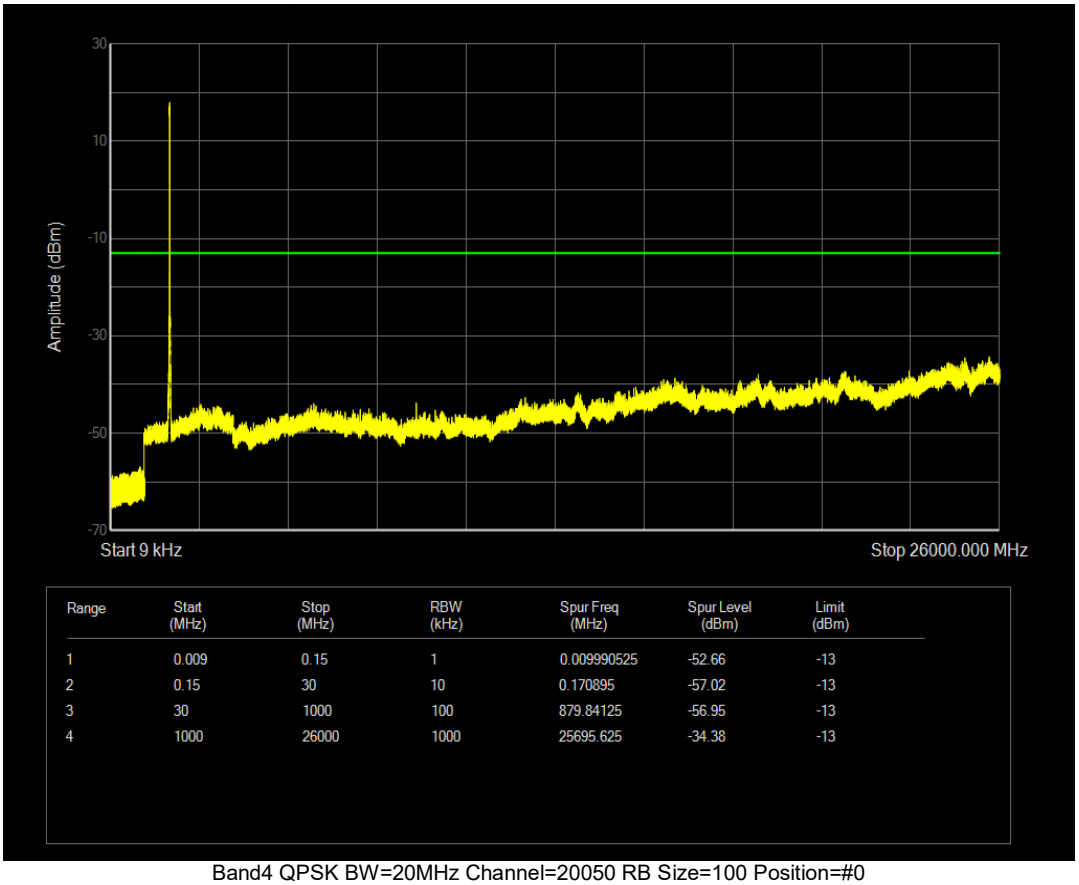

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.010180875 | -53.6 | -13 |
| 2 | 0.15 | 30 | 10 | 0.16194 | -56.8 | -13 |
| 3 | 30 | 1000 | 100 | 850.35325 | -57.18 | -13 |
| 4 | 1000 | 26000 | 1000 | 25766.25 | -34.54 | -13 |

Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0



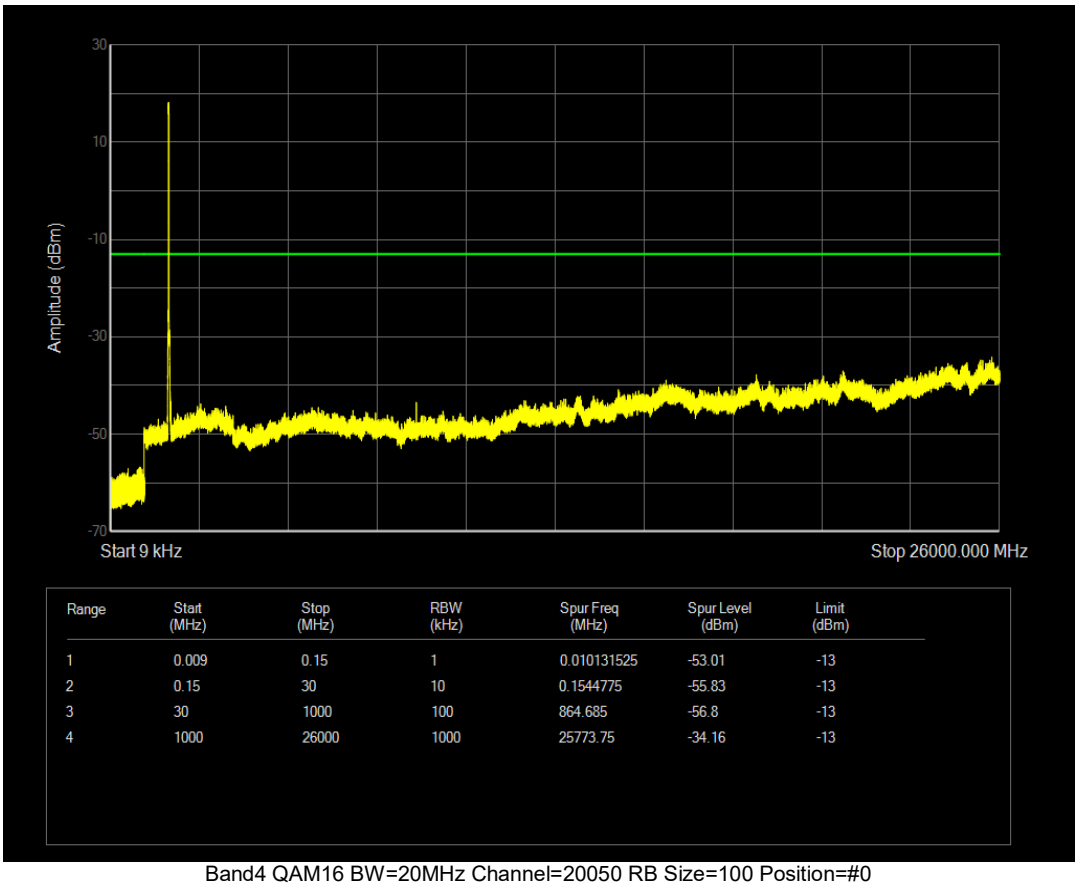

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0092538 | -54.13 | -13 |
| 2 | 0.15 | 30 | 10 | 0.152985 | -58.02 | -13 |
| 3 | 30 | 1000 | 100 | 872.542 | -57.13 | -13 |
| 4 | 1000 | 26000 | 1000 | 24558.75 | -34.63 | -13 |

Band4 QAM16 BW=15MHz Channel=20325 RB Size=75 Position=#0



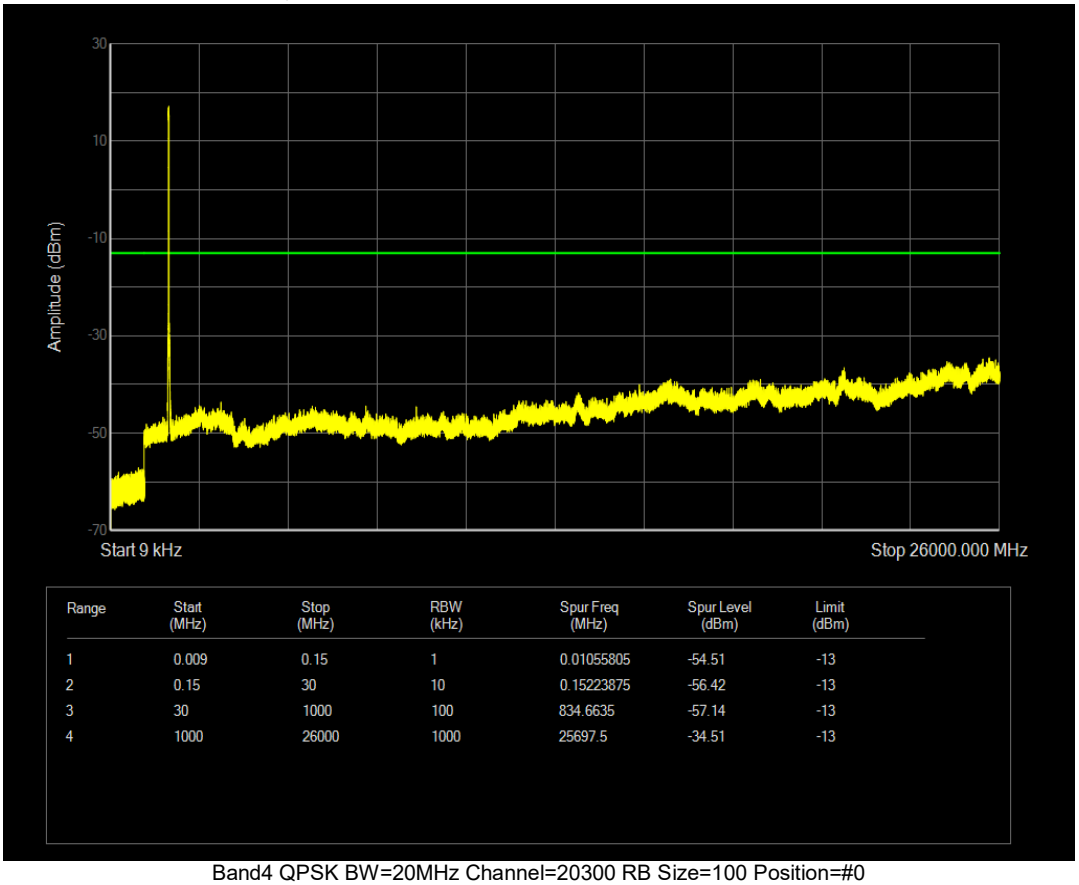

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009990525 | -52.66 | -13 |
| 2 | 0.15 | 30 | 10 | 0.170895 | -57.02 | -13 |
| 3 | 30 | 1000 | 100 | 879.84125 | -56.95 | -13 |
| 4 | 1000 | 26000 | 1000 | 25695.625 | -34.38 | -13 |

Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0



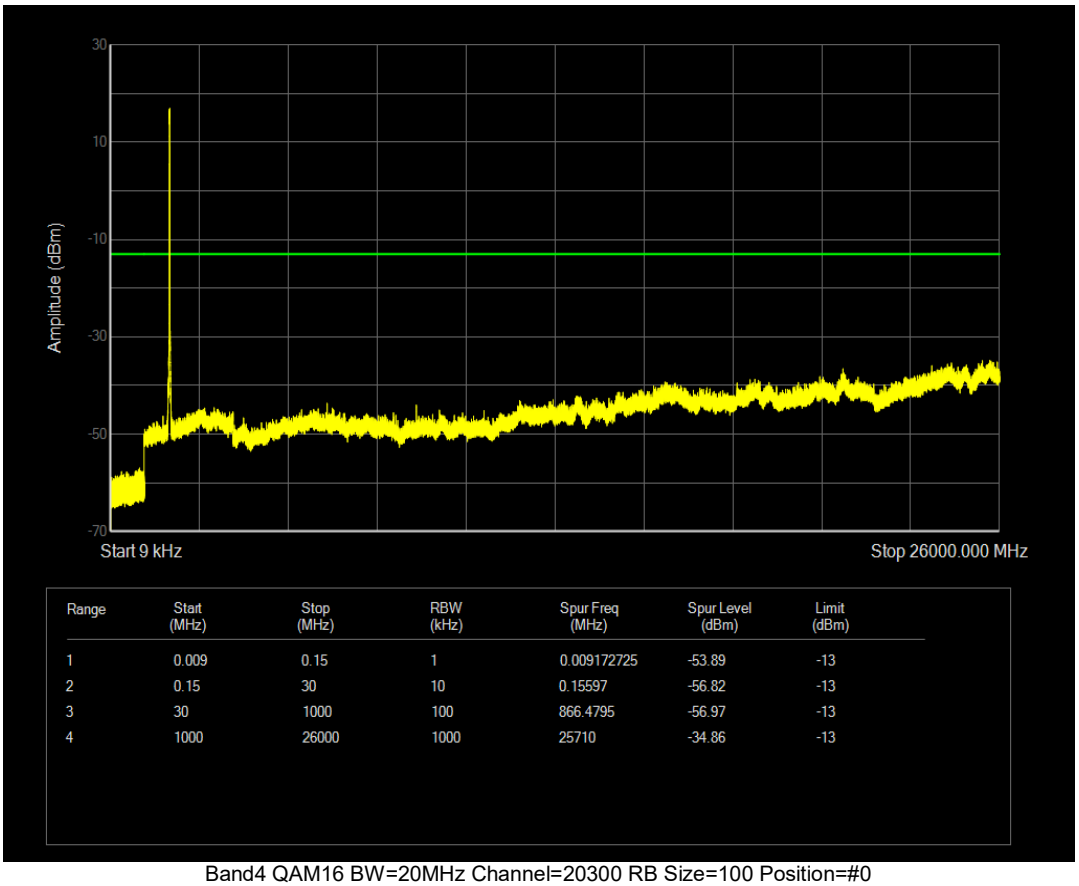

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.010131525 | -53.01 | -13 |
| 2 | 0.15 | 30 | 10 | 0.1544775 | -55.83 | -13 |
| 3 | 30 | 1000 | 100 | 864.685 | -56.8 | -13 |
| 4 | 1000 | 26000 | 1000 | 25773.75 | -34.16 | -13 |

Band4 QAM16 BW=20MHz Channel=20050 RB Size=100 Position=#0



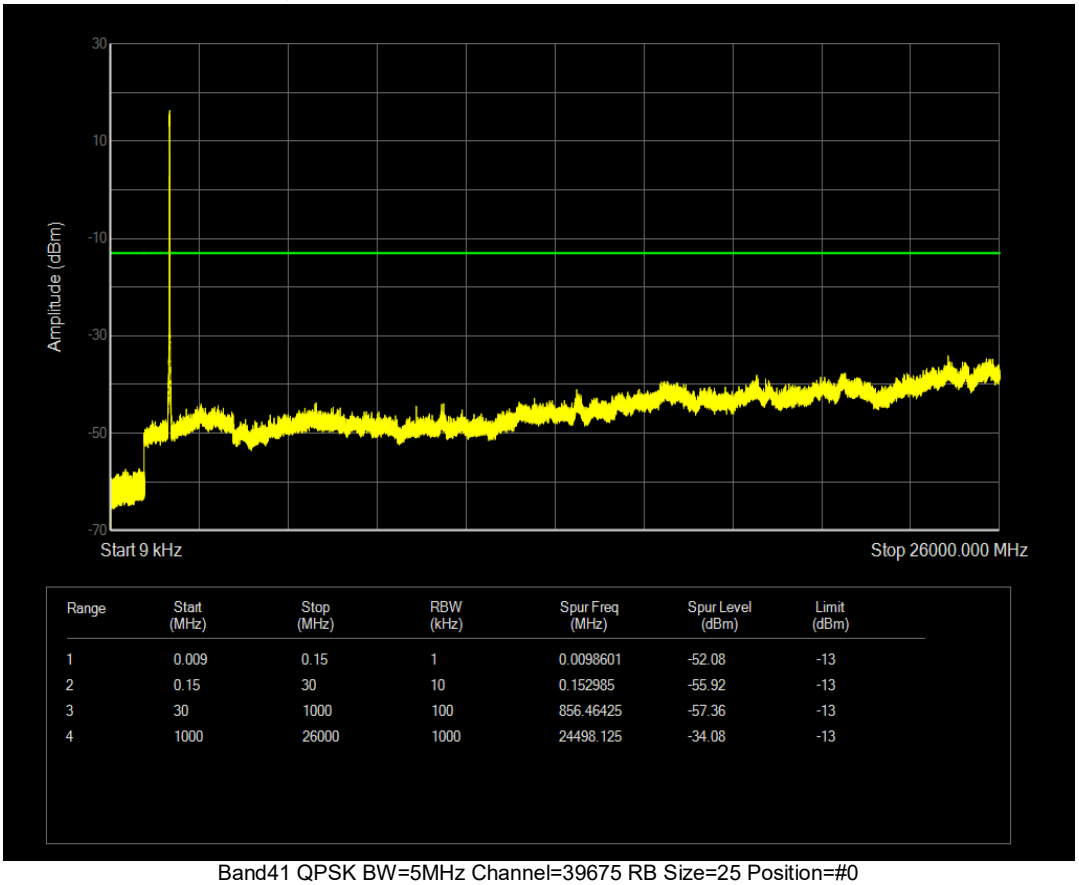

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.01055805 | -54.51 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15223875 | -56.42 | -13 |
| 3 | 30 | 1000 | 100 | 834.6635 | -57.14 | -13 |
| 4 | 1000 | 26000 | 1000 | 25697.5 | -34.51 | -13 |

Band4 QPSK BW=20MHz Channel=20300 RB Size=100 Position=#0



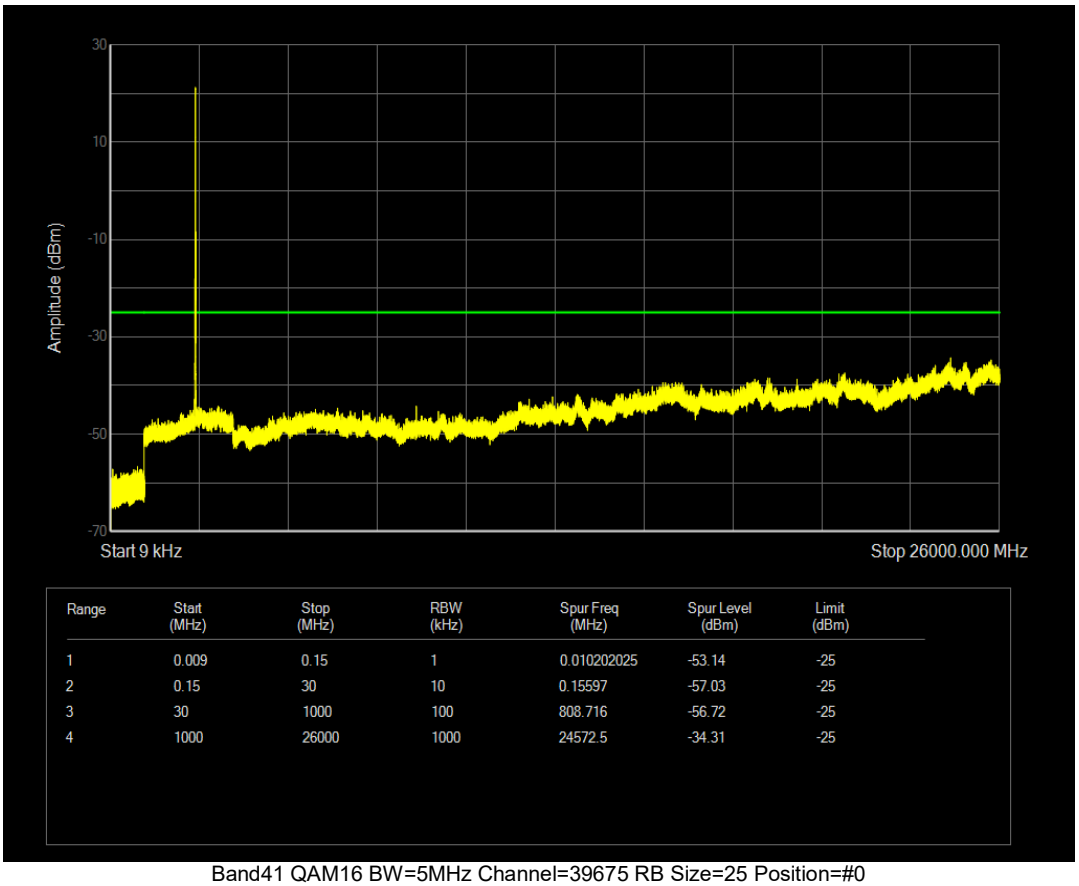

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009172725 | -53.89 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15597 | -56.82 | -13 |
| 3 | 30 | 1000 | 100 | 866.4795 | -56.97 | -13 |
| 4 | 1000 | 26000 | 1000 | 25710 | -34.86 | -13 |

Band4 QAM16 BW=20MHz Channel=20300 RB Size=100 Position=#0



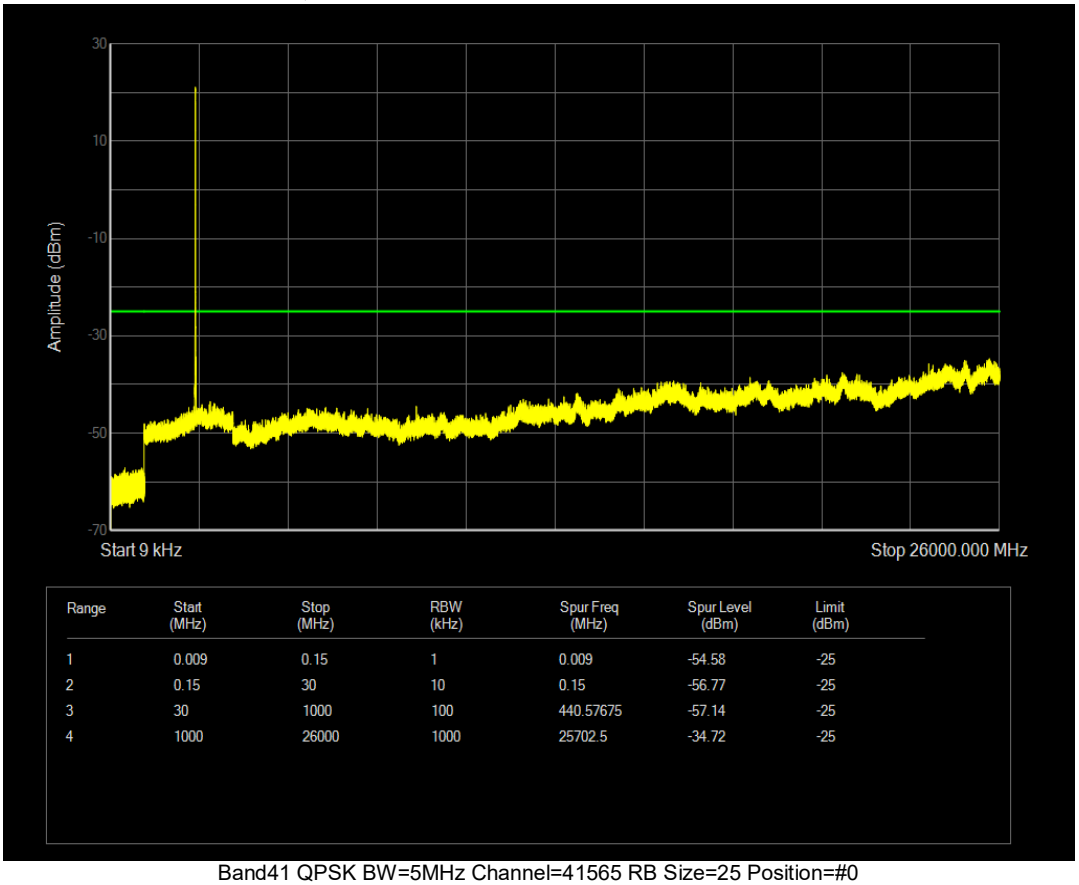

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0098601 | -52.08 | -13 |
| 2 | 0.15 | 30 | 10 | 0.152985 | -55.92 | -13 |
| 3 | 30 | 1000 | 100 | 856.46425 | -57.36 | -13 |
| 4 | 1000 | 26000 | 1000 | 24498.125 | -34.08 | -13 |

Band41 QPSK BW=5MHz Channel=39675 RB Size=25 Position=#0



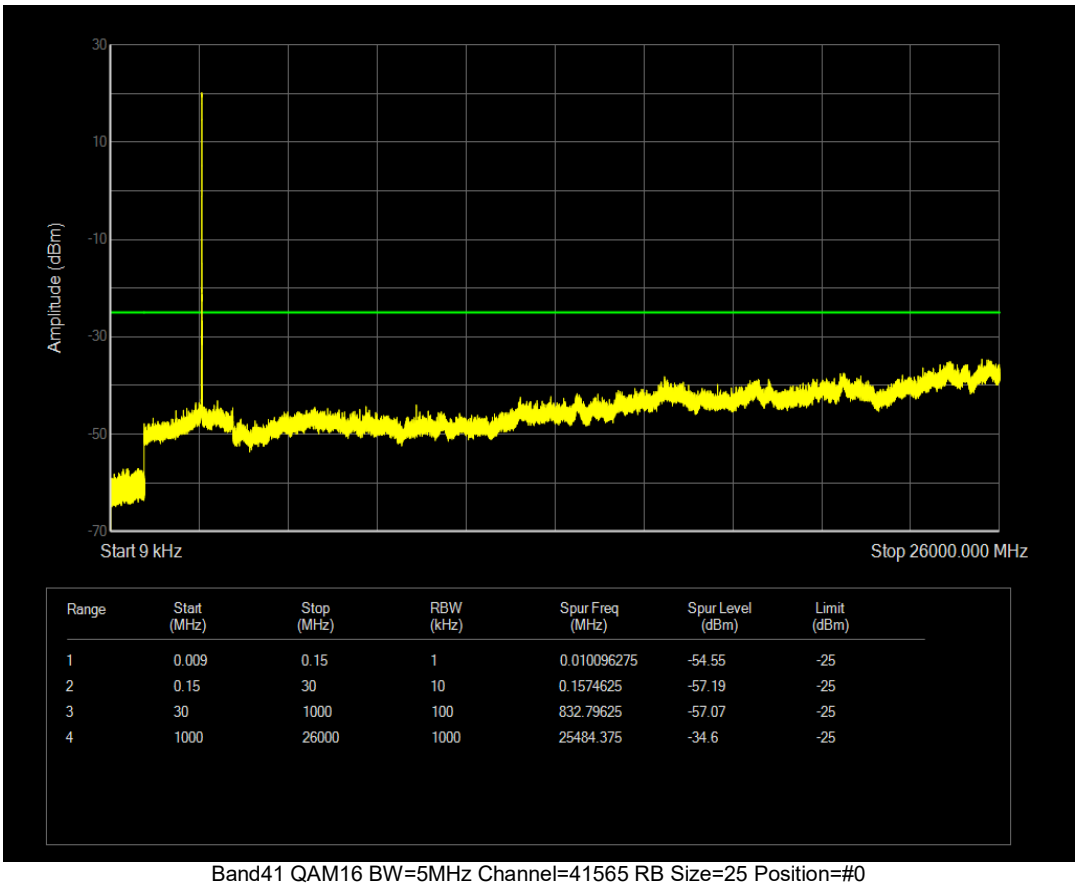

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.010202025 | -53.14 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15597 | -57.03 | -25 |
| 3 | 30 | 1000 | 100 | 808.716 | -56.72 | -25 |
| 4 | 1000 | 26000 | 1000 | 24572.5 | -34.31 | -25 |

Band41 QAM16 BW=5MHz Channel=39675 RB Size=25 Position=#0



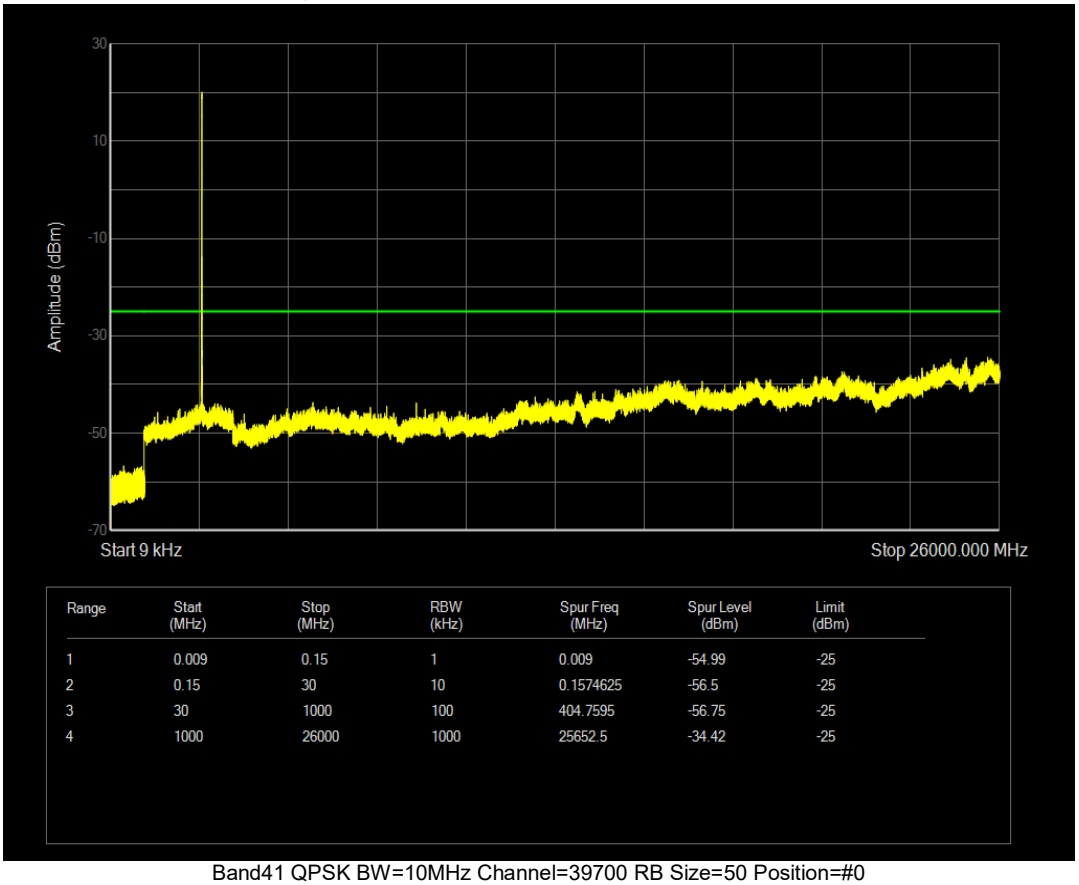

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009 | -54.58 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15 | -56.77 | -25 |
| 3 | 30 | 1000 | 100 | 440.57675 | -57.14 | -25 |
| 4 | 1000 | 26000 | 1000 | 25702.5 | -34.72 | -25 |

Band41 QPSK BW=5MHz Channel=41565 RB Size=25 Position=#0



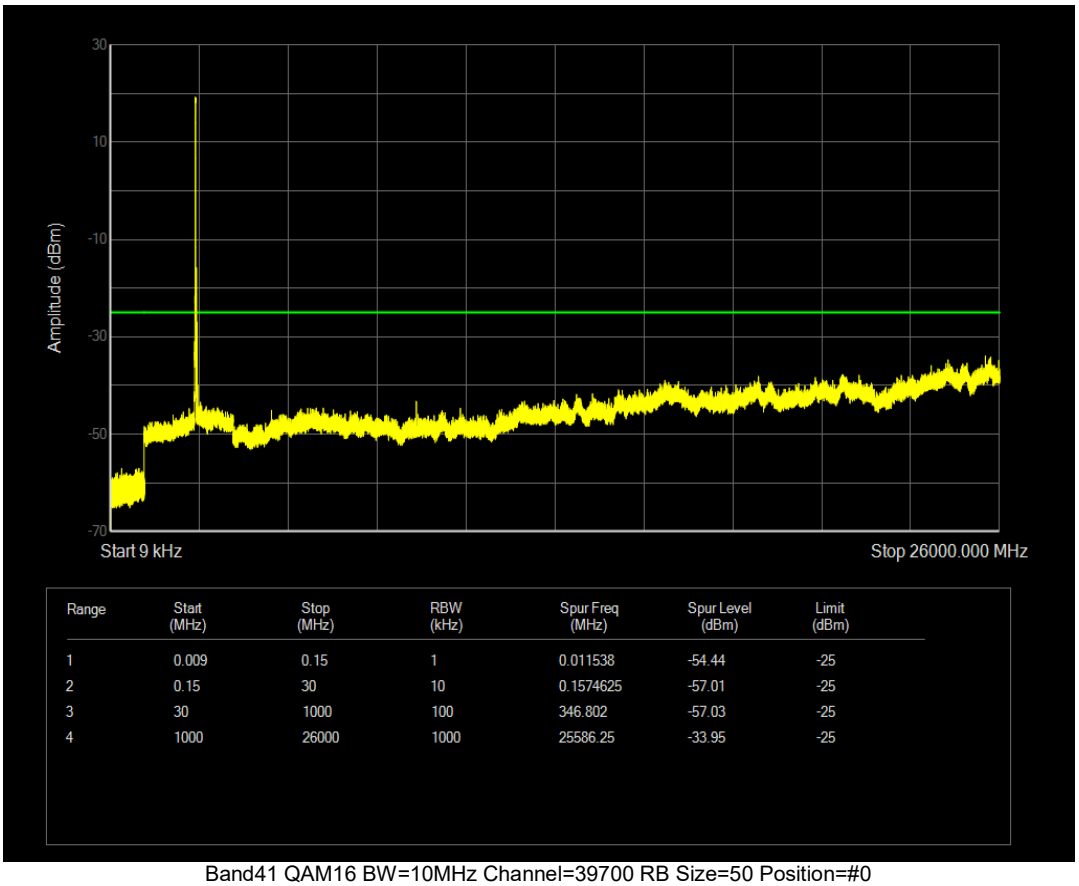

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.010096275 | -54.55 | -25 |
| 2 | 0.15 | 30 | 10 | 0.1574625 | -57.19 | -25 |
| 3 | 30 | 1000 | 100 | 832.79625 | -57.07 | -25 |
| 4 | 1000 | 26000 | 1000 | 25484.375 | -34.6 | -25 |

Band41 QAM16 BW=5MHz Channel=41565 RB Size=25 Position=#0



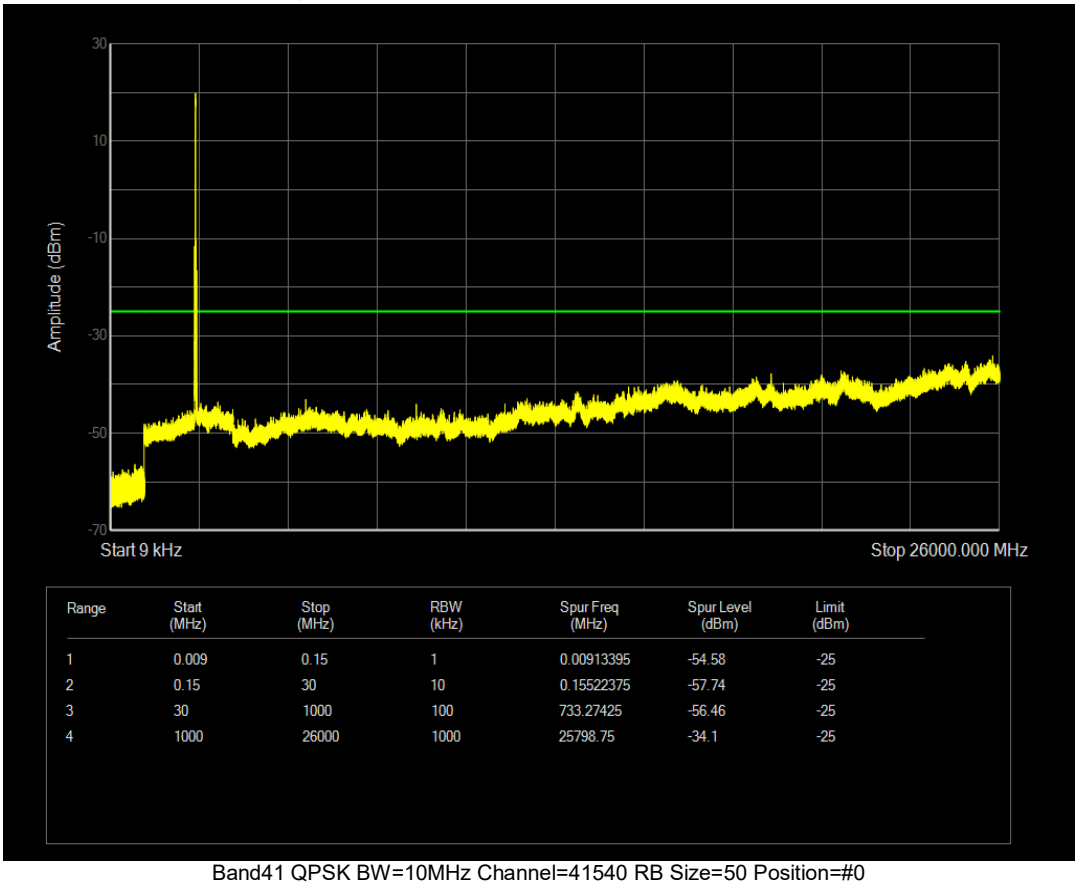

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009 | -54.99 | -25 |
| 2 | 0.15 | 30 | 10 | 0.1574625 | -56.5 | -25 |
| 3 | 30 | 1000 | 100 | 404.7595 | -56.75 | -25 |
| 4 | 1000 | 26000 | 1000 | 25652.5 | -34.42 | -25 |

Band41 QPSK BW=10MHz Channel=39700 RB Size=50 Position=#0



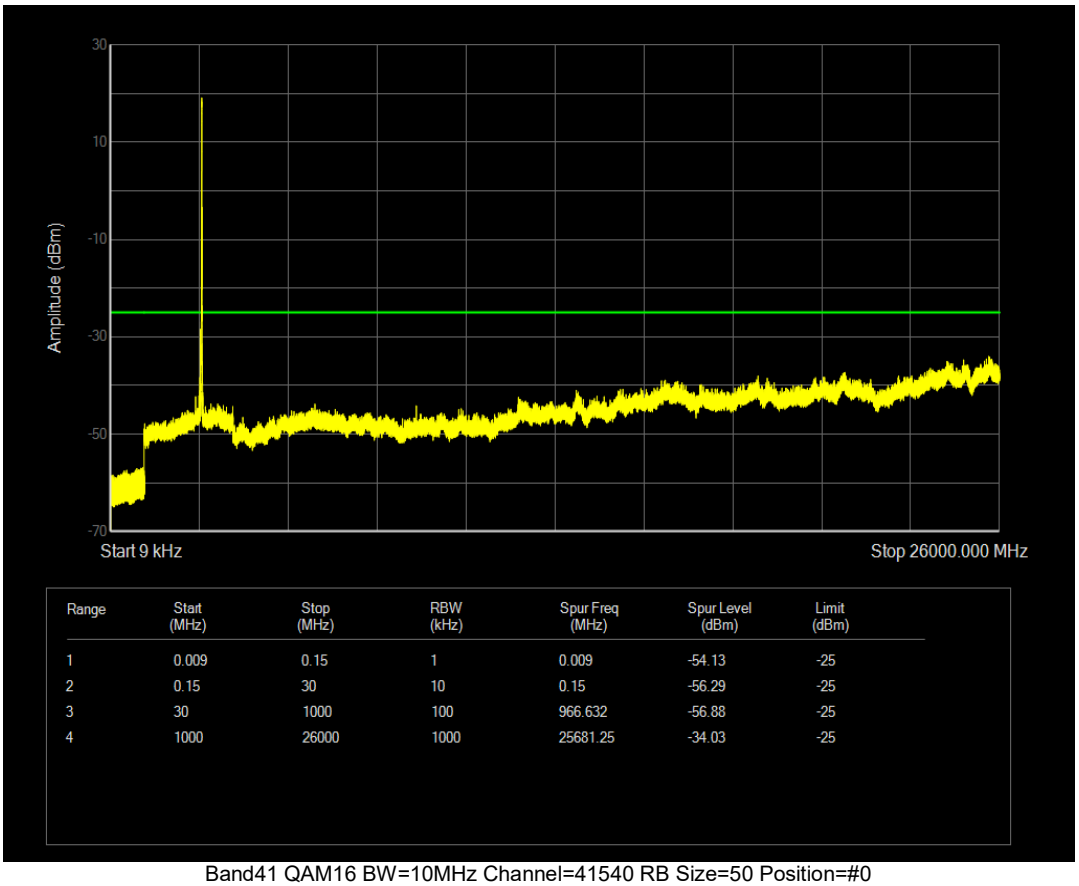

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.011538 | -54.44 | -25 |
| 2 | 0.15 | 30 | 10 | 0.1574625 | -57.01 | -25 |
| 3 | 30 | 1000 | 100 | 346.802 | -57.03 | -25 |
| 4 | 1000 | 26000 | 1000 | 25586.25 | -33.95 | -25 |

Band41 QAM16 BW=10MHz Channel=39700 RB Size=50 Position=#0



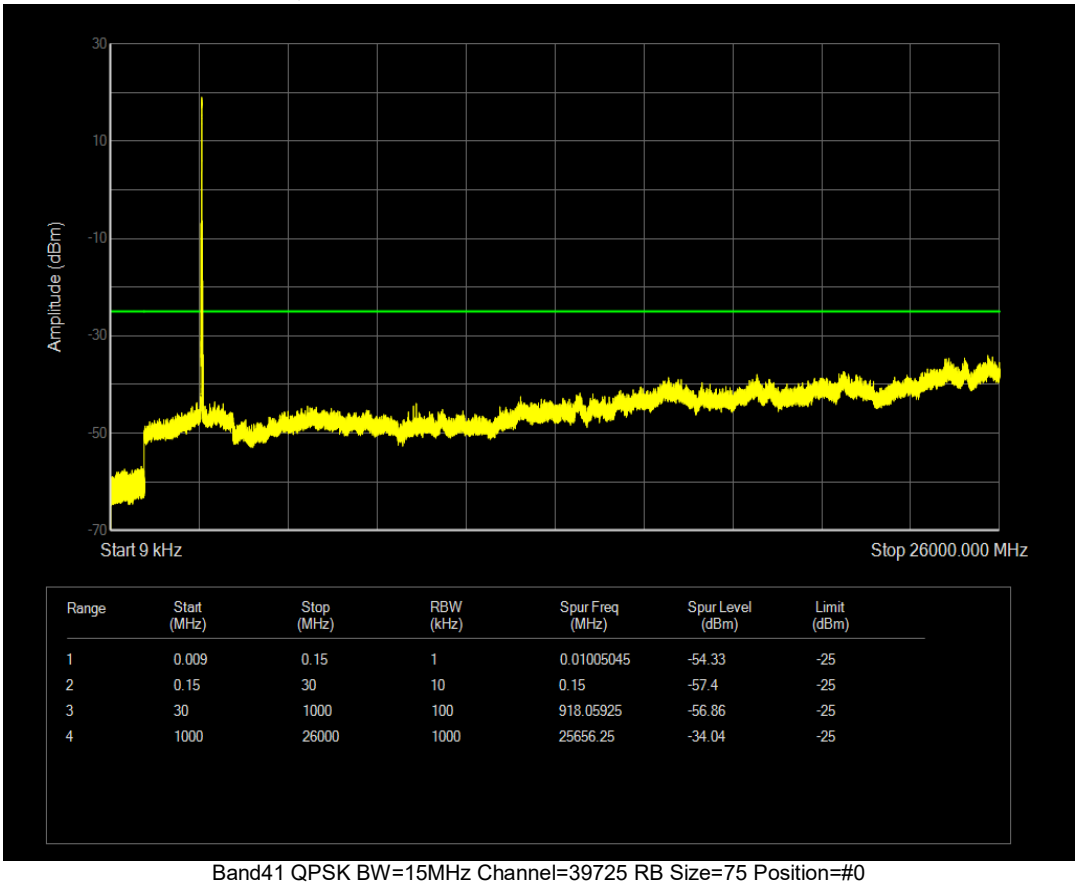

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.00913395 | -54.58 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15522375 | -57.74 | -25 |
| 3 | 30 | 1000 | 100 | 733.27425 | -56.46 | -25 |
| 4 | 1000 | 26000 | 1000 | 25798.75 | -34.1 | -25 |

Band41 QPSK BW=10MHz Channel=41540 RB Size=50 Position=#0



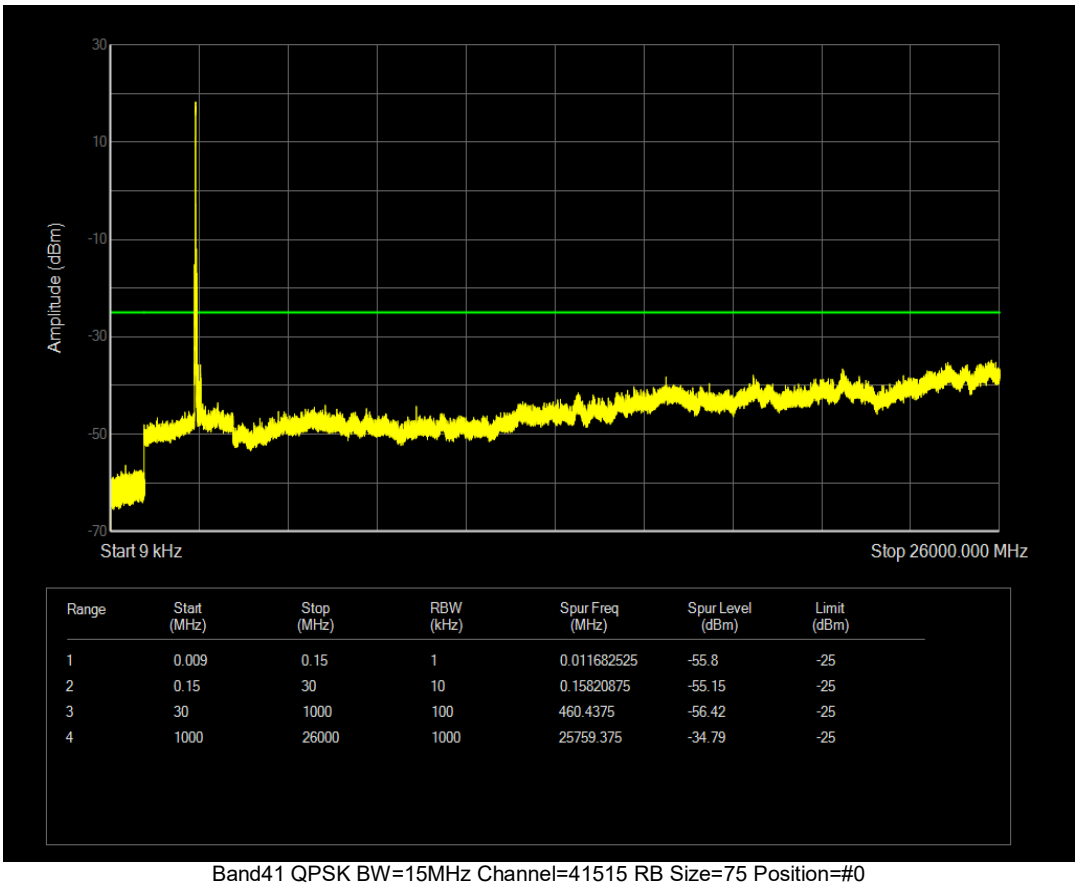

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009 | -54.13 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15 | -56.29 | -25 |
| 3 | 30 | 1000 | 100 | 966.632 | -56.88 | -25 |
| 4 | 1000 | 26000 | 1000 | 25681.25 | -34.03 | -25 |

Band41 QAM16 BW=10MHz Channel=41540 RB Size=50 Position=#0



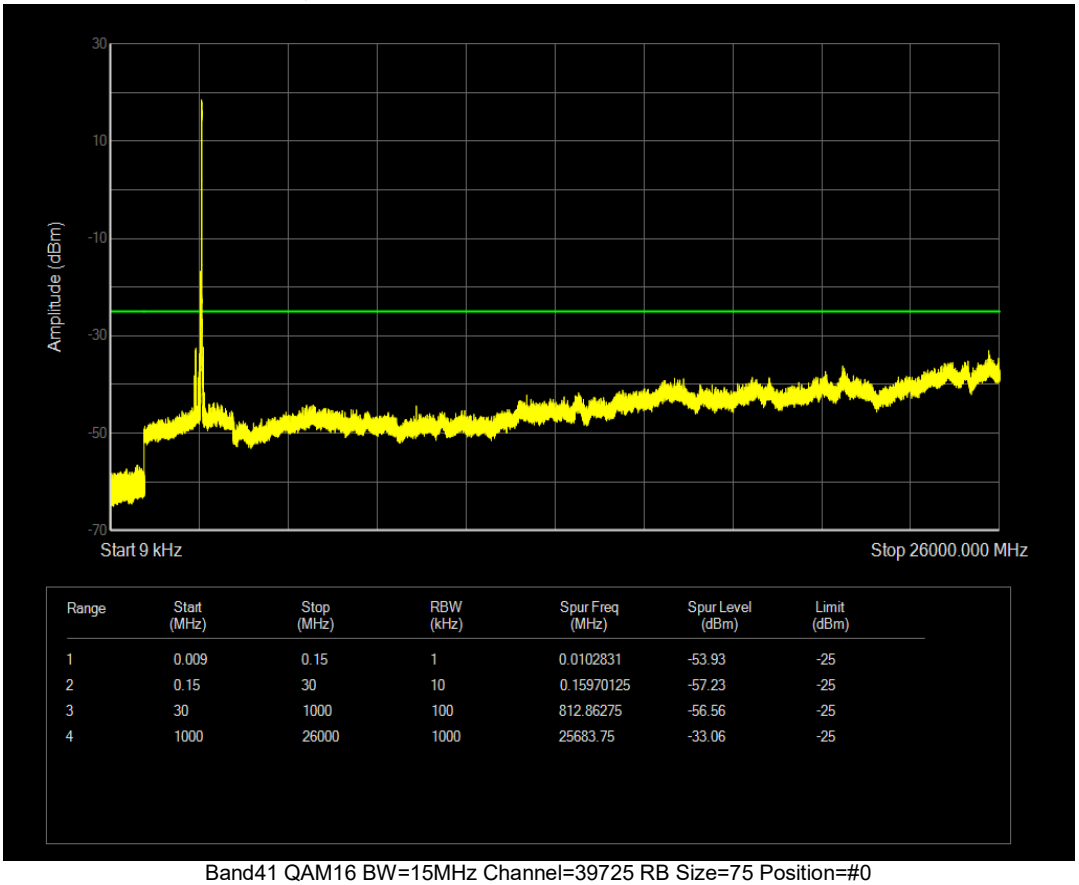

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.01005045 | -54.33 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15 | -57.4 | -25 |
| 3 | 30 | 1000 | 100 | 918.05925 | -56.86 | -25 |
| 4 | 1000 | 26000 | 1000 | 25656.25 | -34.04 | -25 |

Band41 QPSK BW=15MHz Channel=39725 RB Size=75 Position=#0



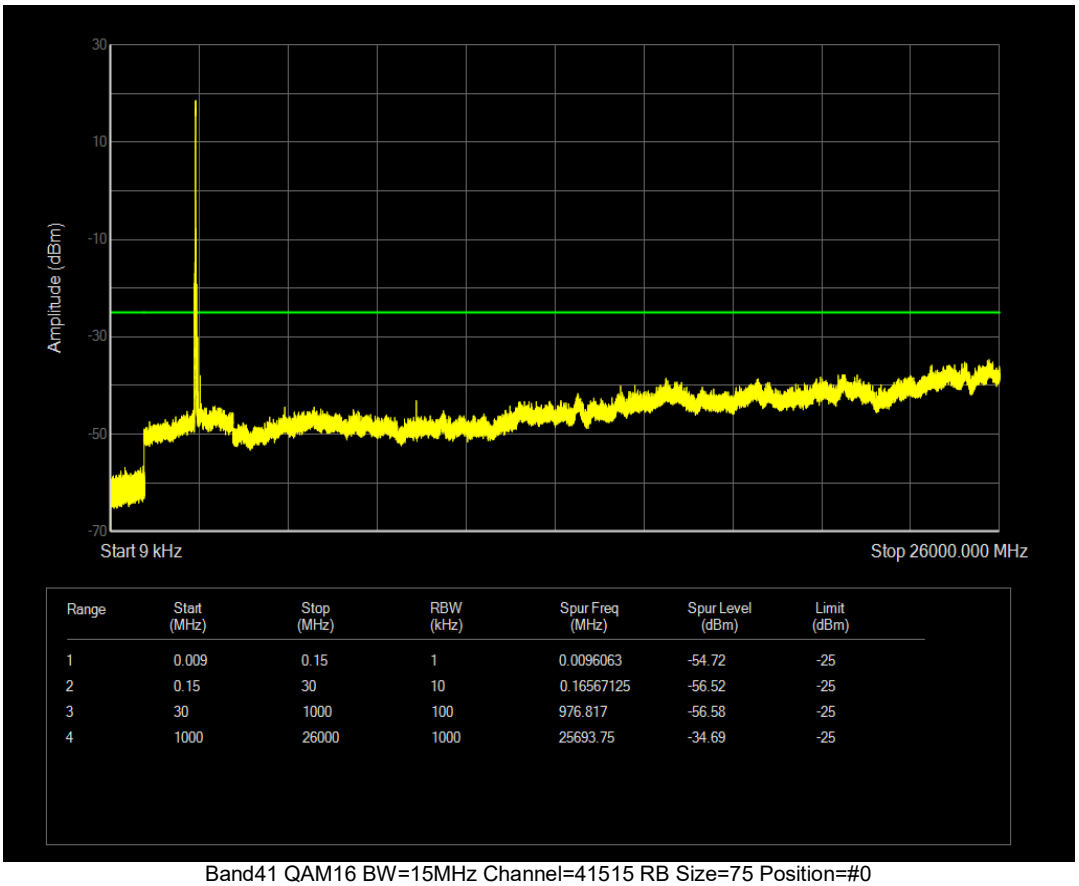

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.011682525 | -55.8 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15820875 | -55.15 | -25 |
| 3 | 30 | 1000 | 100 | 460.4375 | -56.42 | -25 |
| 4 | 1000 | 26000 | 1000 | 25759.375 | -34.79 | -25 |

Band41 QPSK BW=15MHz Channel=41515 RB Size=75 Position=#0



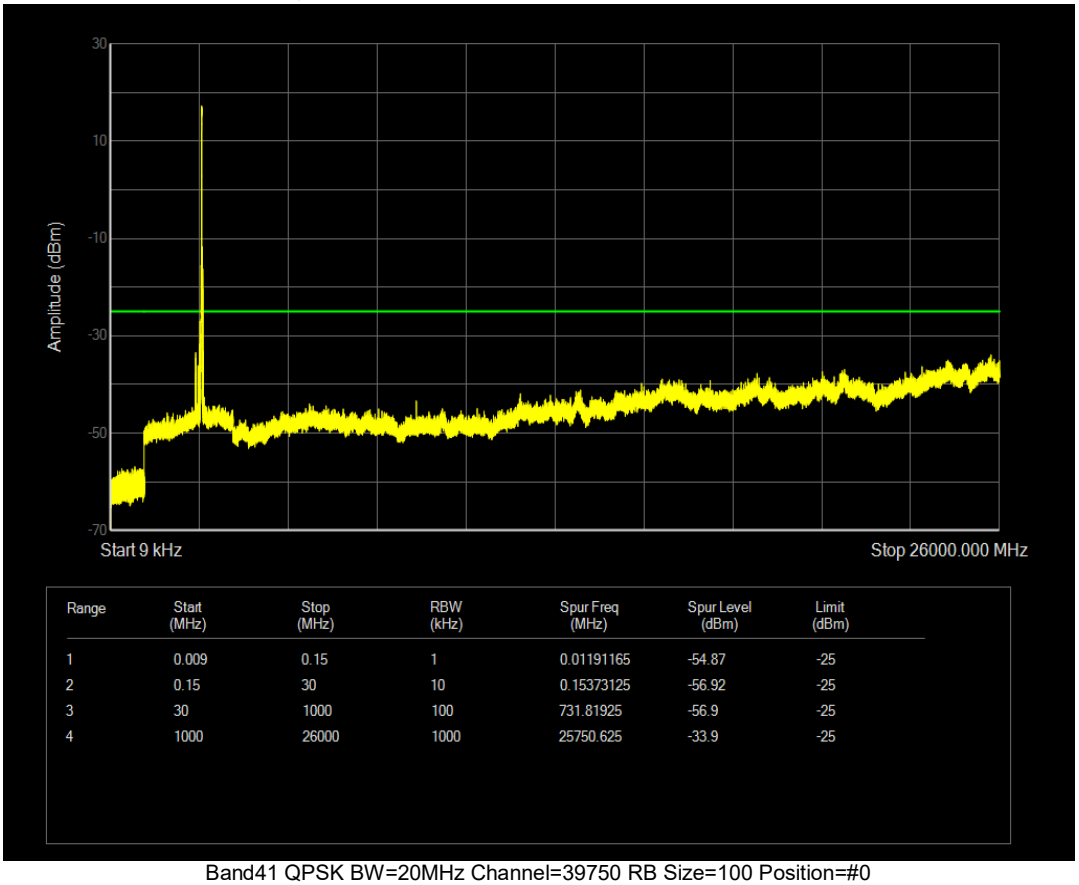

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0102831 | -53.93 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15970125 | -57.23 | -25 |
| 3 | 30 | 1000 | 100 | 812.86275 | -56.56 | -25 |
| 4 | 1000 | 26000 | 1000 | 25683.75 | -33.06 | -25 |

Band41 QAM16 BW=15MHz Channel=39725 RB Size=75 Position=#0



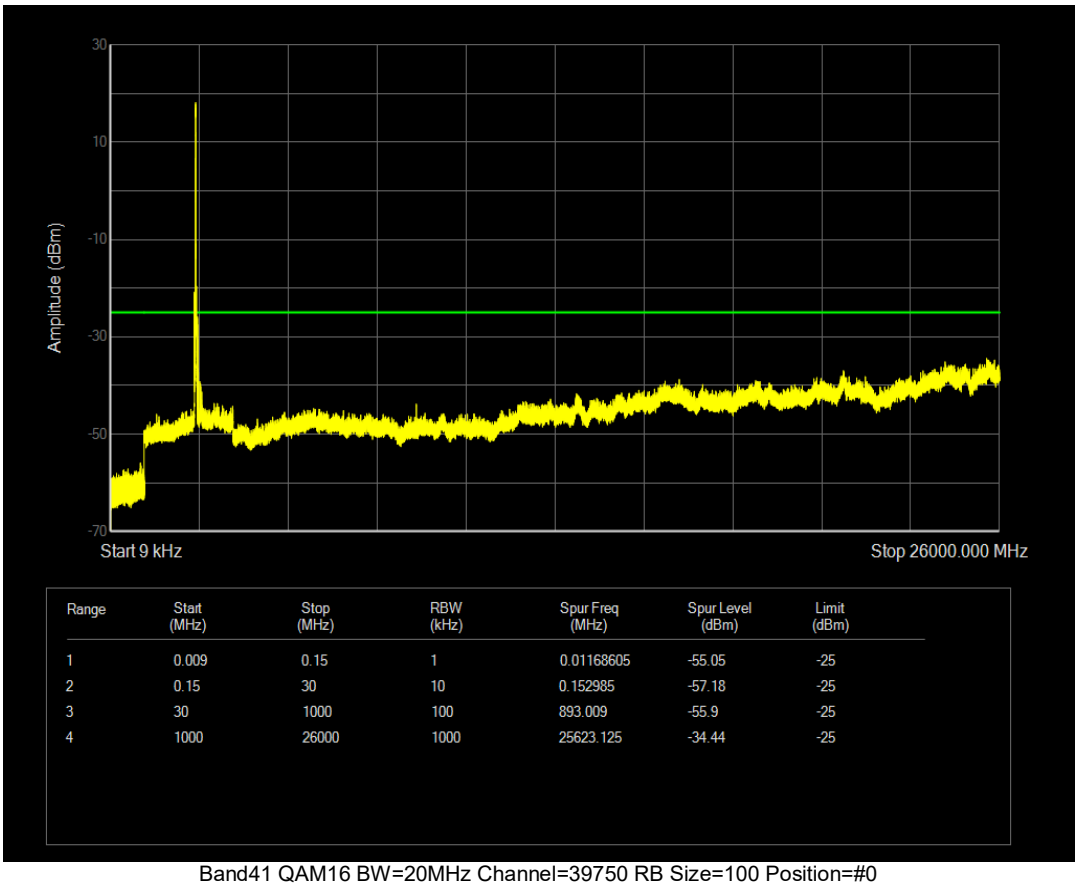

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0096063 | -54.72 | -25 |
| 2 | 0.15 | 30 | 10 | 0.16567125 | -56.52 | -25 |
| 3 | 30 | 1000 | 100 | 976.817 | -56.58 | -25 |
| 4 | 1000 | 26000 | 1000 | 25693.75 | -34.69 | -25 |

Band41 QAM16 BW=15MHz Channel=41515 RB Size=75 Position=#0



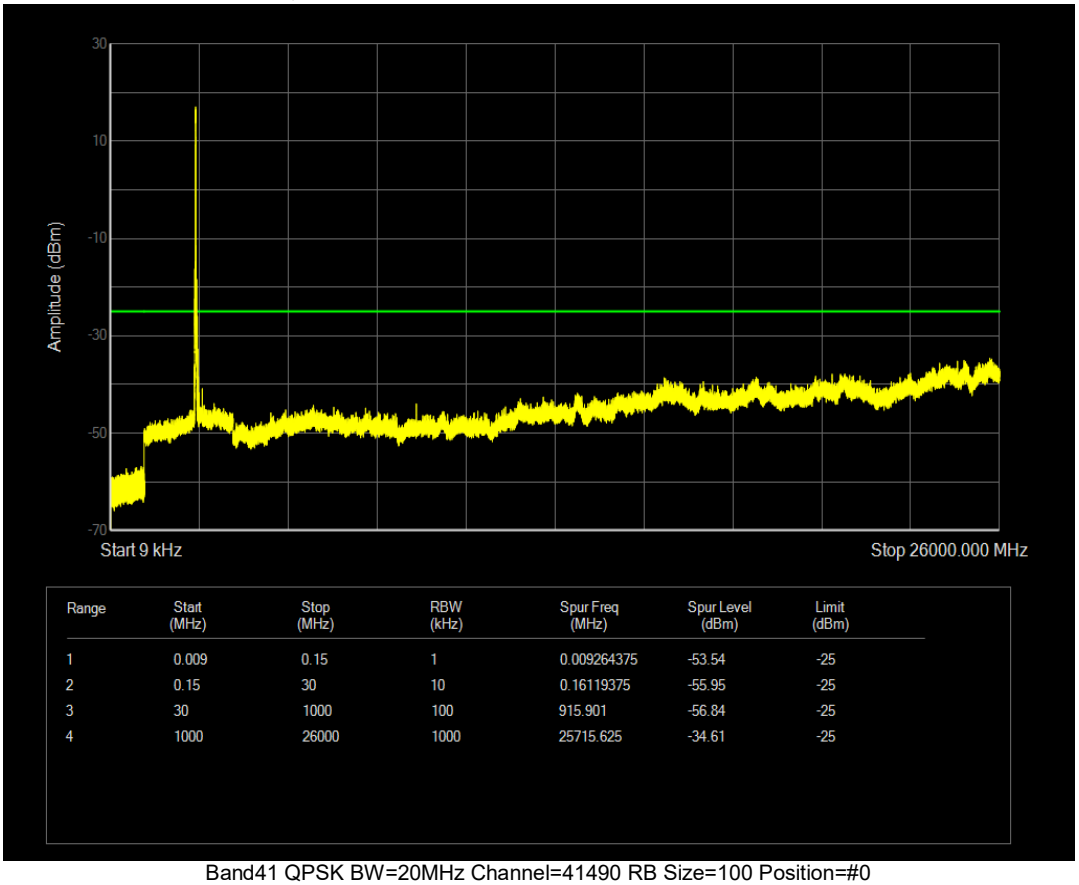

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.01191165 | -54.87 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15373125 | -56.92 | -25 |
| 3 | 30 | 1000 | 100 | 731.81925 | -56.9 | -25 |
| 4 | 1000 | 26000 | 1000 | 25750.625 | -33.9 | -25 |

Band41 QPSK BW=20MHz Channel=39750 RB Size=100 Position=#0



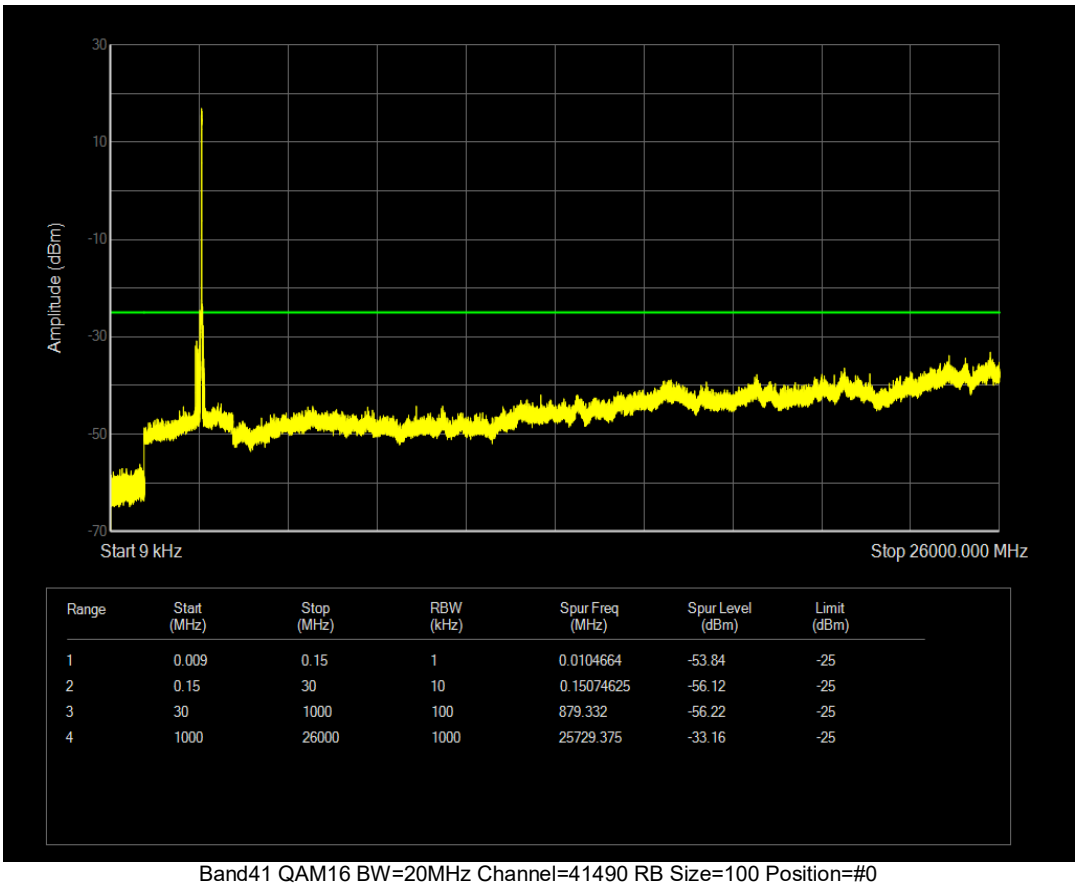

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.01168605 | -55.05 | -25 |
| 2 | 0.15 | 30 | 10 | 0.152985 | -57.18 | -25 |
| 3 | 30 | 1000 | 100 | 893.009 | -55.9 | -25 |
| 4 | 1000 | 26000 | 1000 | 25623.125 | -34.44 | -25 |

Band41 QAM16 BW=20MHz Channel=39750 RB Size=100 Position=#0



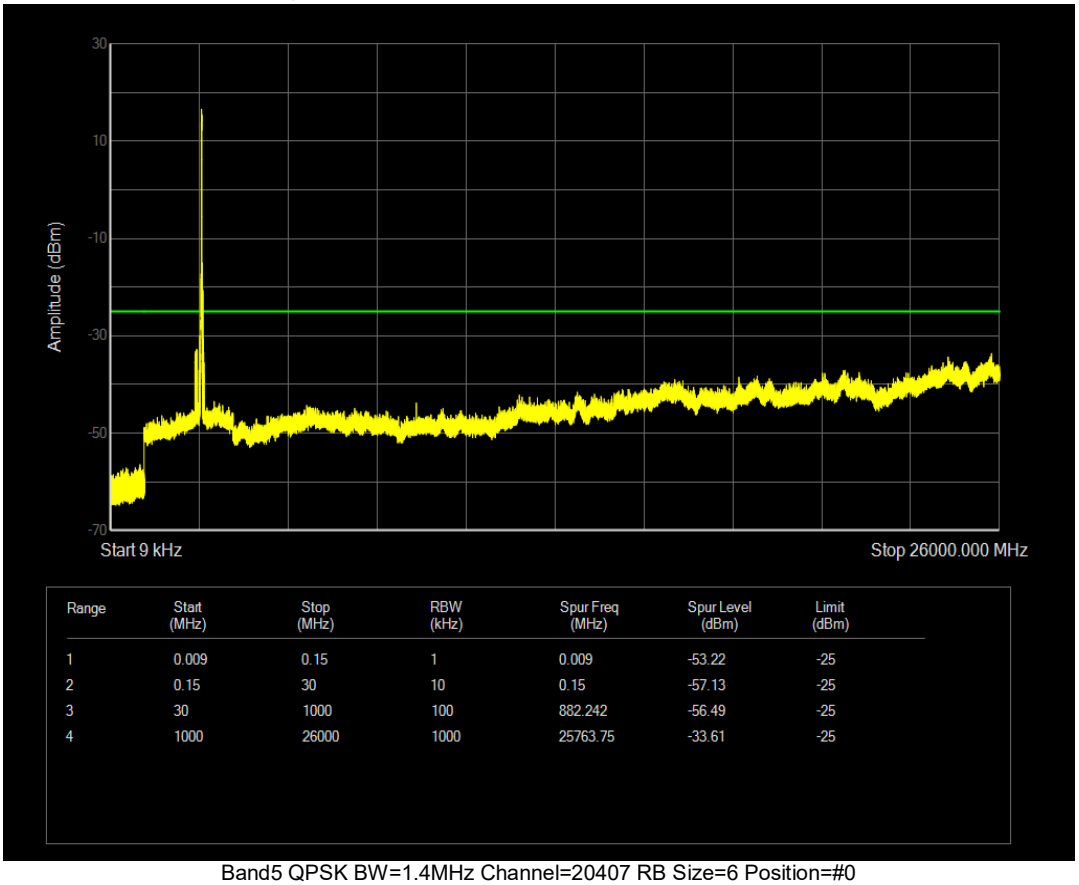

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009264375 | -53.54 | -25 |
| 2 | 0.15 | 30 | 10 | 0.16119375 | -55.95 | -25 |
| 3 | 30 | 1000 | 100 | 915.901 | -56.84 | -25 |
| 4 | 1000 | 26000 | 1000 | 25715.625 | -34.61 | -25 |

Band41 QPSK BW=20MHz Channel=41490 RB Size=100 Position=#0



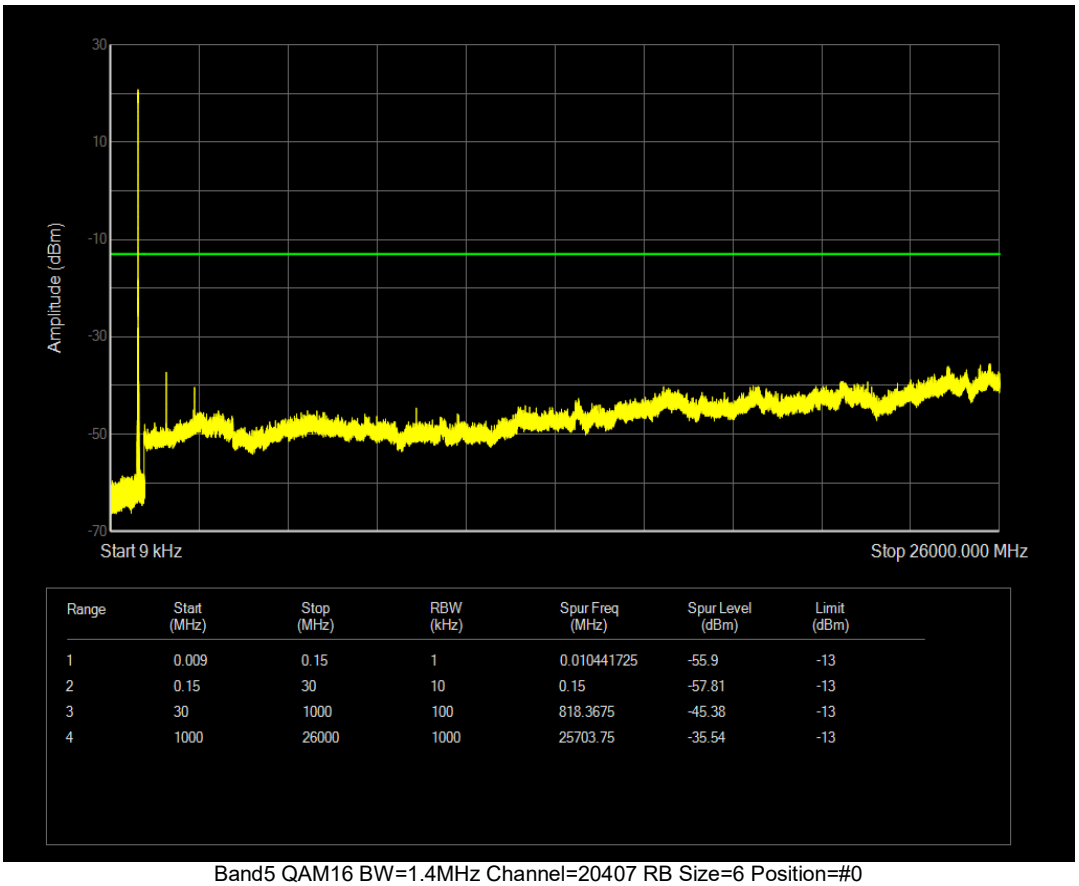

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0104664 | -53.84 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15074625 | -56.12 | -25 |
| 3 | 30 | 1000 | 100 | 879.332 | -56.22 | -25 |
| 4 | 1000 | 26000 | 1000 | 25729.375 | -33.16 | -25 |

Band41 QAM16 BW=20MHz Channel=41490 RB Size=100 Position=#0



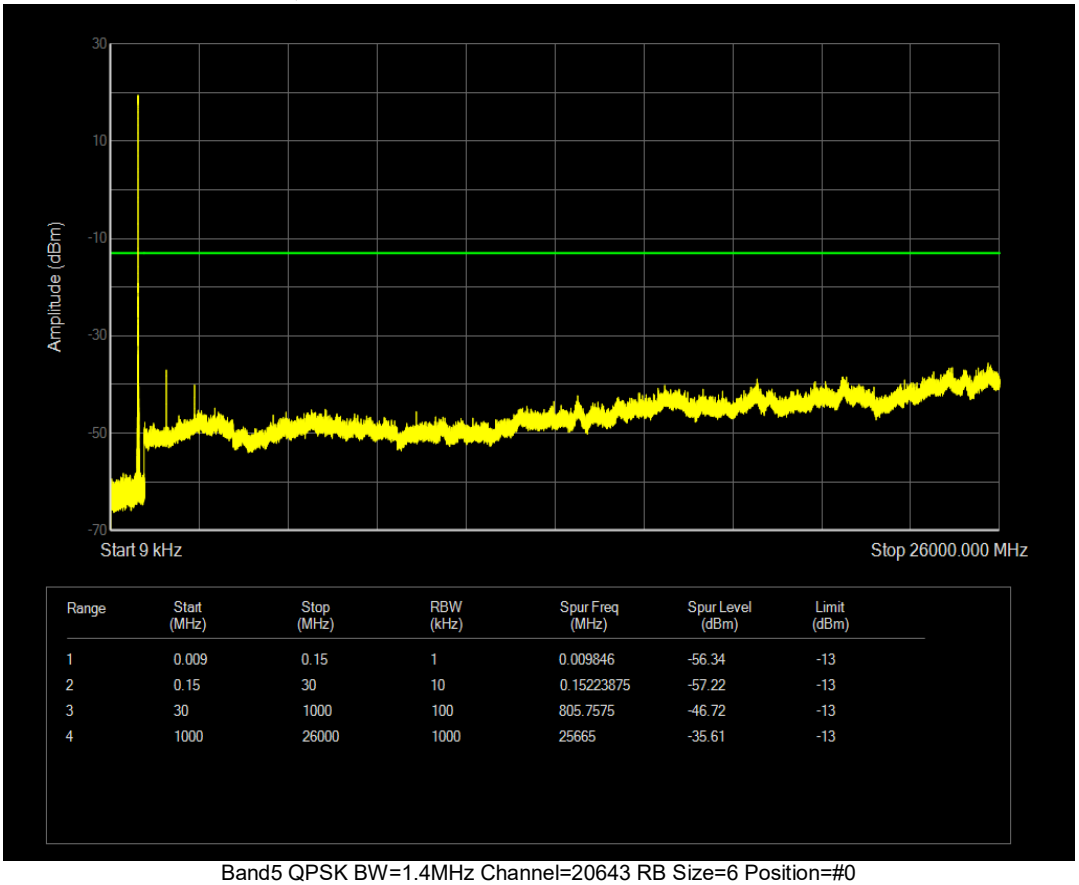

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009 | -53.22 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15 | -57.13 | -25 |
| 3 | 30 | 1000 | 100 | 882.242 | -56.49 | -25 |
| 4 | 1000 | 26000 | 1000 | 25763.75 | -33.61 | -25 |

Band5 QPSK BW=1.4MHz Channel=20407 RB Size=6 Position=#0



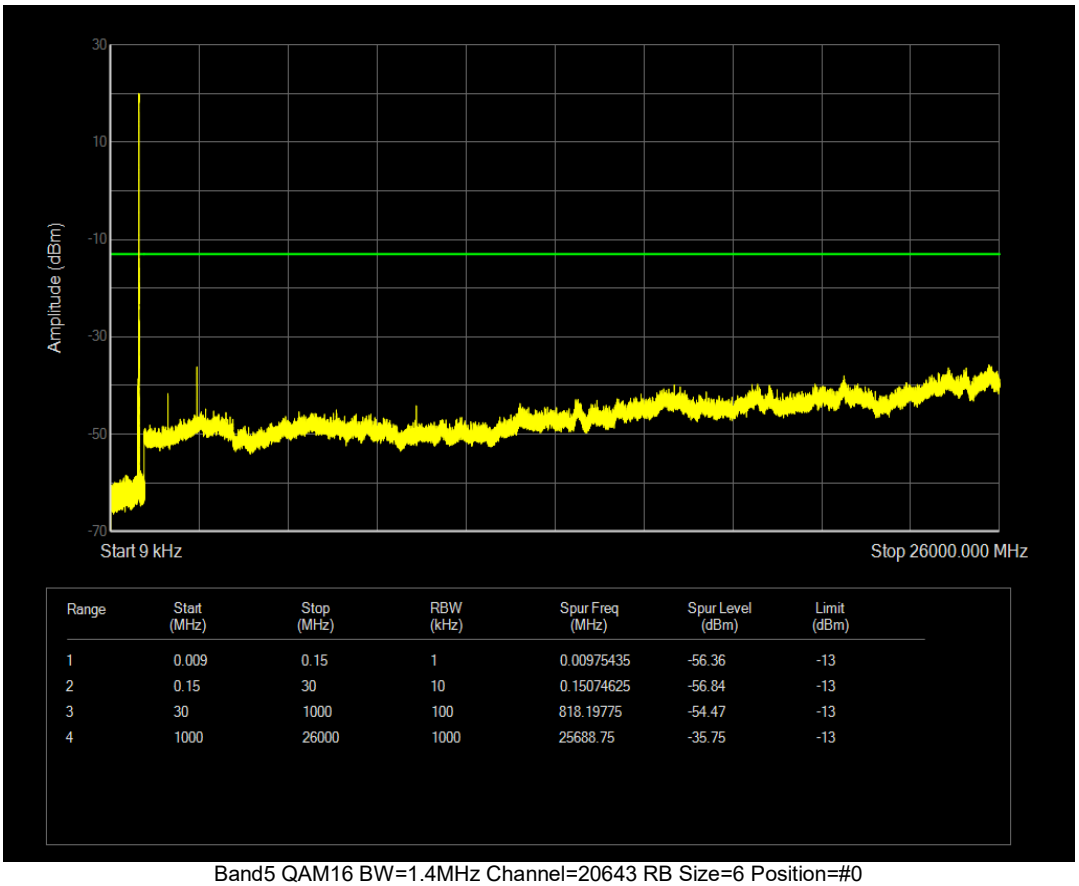

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.010441725 | -55.9 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -57.81 | -13 |
| 3 | 30 | 1000 | 100 | 818.3675 | -45.38 | -13 |
| 4 | 1000 | 26000 | 1000 | 25703.75 | -35.54 | -13 |

Band5 QAM16 BW=1.4MHz Channel=20407 RB Size=6 Position=#0



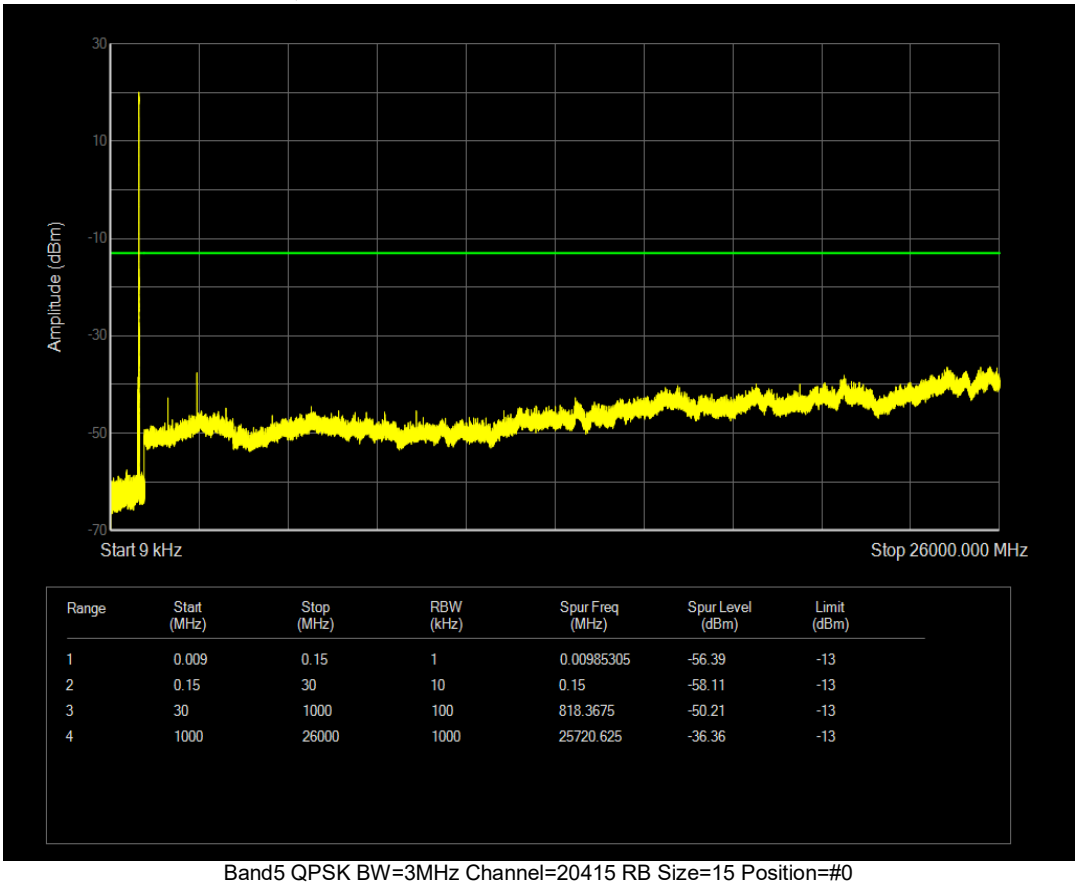

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009846 | -56.34 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15223875 | -57.22 | -13 |
| 3 | 30 | 1000 | 100 | 805.7575 | -46.72 | -13 |
| 4 | 1000 | 26000 | 1000 | 25665 | -35.61 | -13 |

Band5 QPSK BW=1.4MHz Channel=20643 RB Size=6 Position=#0



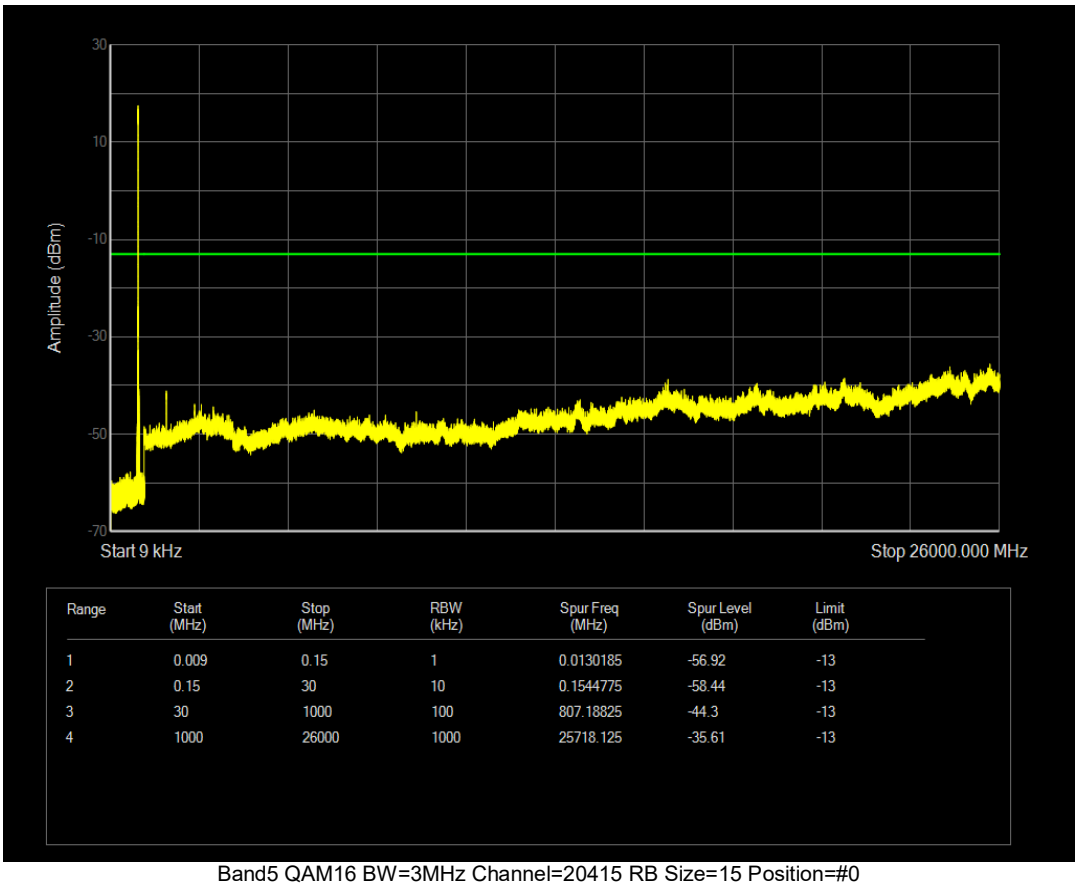

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.00975435 | -56.36 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15074625 | -56.84 | -13 |
| 3 | 30 | 1000 | 100 | 818.19775 | -54.47 | -13 |
| 4 | 1000 | 26000 | 1000 | 25688.75 | -35.75 | -13 |

Band5 QAM16 BW=1.4MHz Channel=20643 RB Size=6 Position=#0



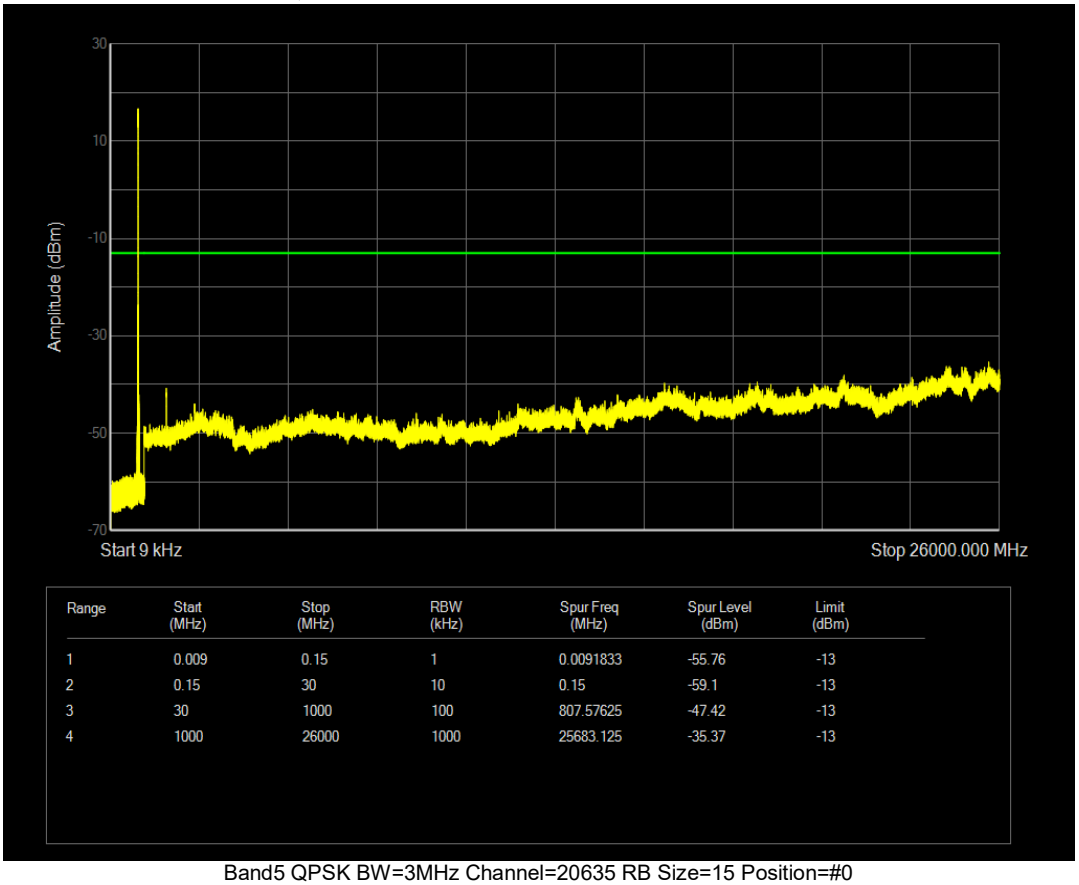

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.00985305 | -56.39 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -58.11 | -13 |
| 3 | 30 | 1000 | 100 | 818.3675 | -50.21 | -13 |
| 4 | 1000 | 26000 | 1000 | 25720.625 | -36.36 | -13 |

Band5 QPSK BW=3MHz Channel=20415 RB Size=15 Position=#0



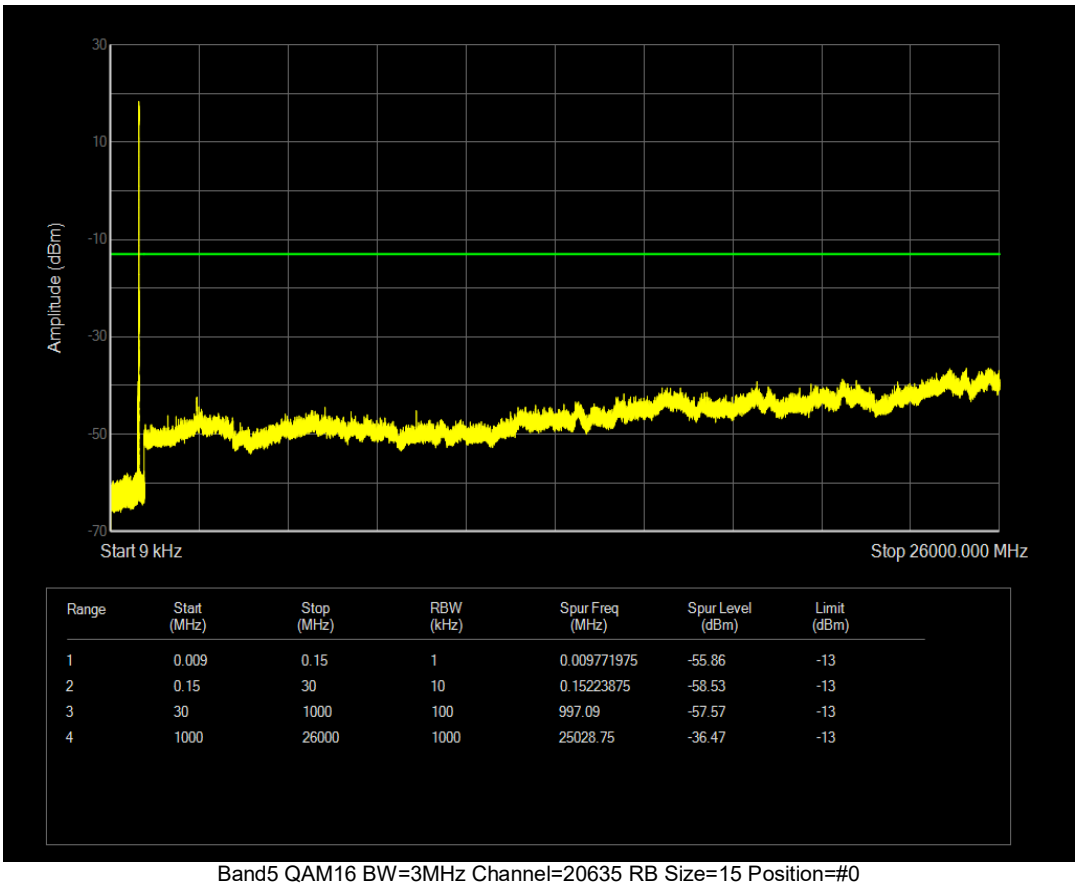

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0130185 | -56.92 | -13 |
| 2 | 0.15 | 30 | 10 | 0.1544775 | -58.44 | -13 |
| 3 | 30 | 1000 | 100 | 807.18825 | -44.3 | -13 |
| 4 | 1000 | 26000 | 1000 | 25718.125 | -35.61 | -13 |

Band5 QAM16 BW=3MHz Channel=20415 RB Size=15 Position=#0



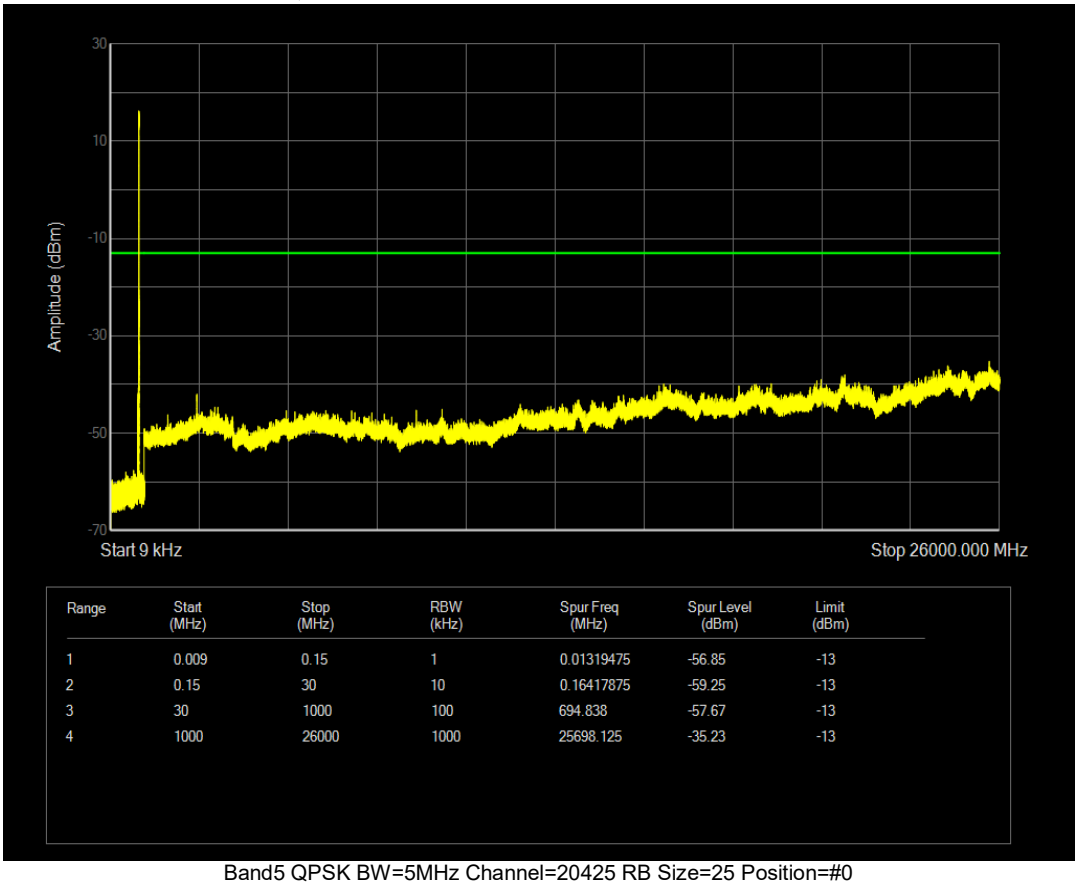

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0091833 | -55.76 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -59.1 | -13 |
| 3 | 30 | 1000 | 100 | 807.57625 | -47.42 | -13 |
| 4 | 1000 | 26000 | 1000 | 25683.125 | -35.37 | -13 |

Band5 QPSK BW=3MHz Channel=20635 RB Size=15 Position=#0



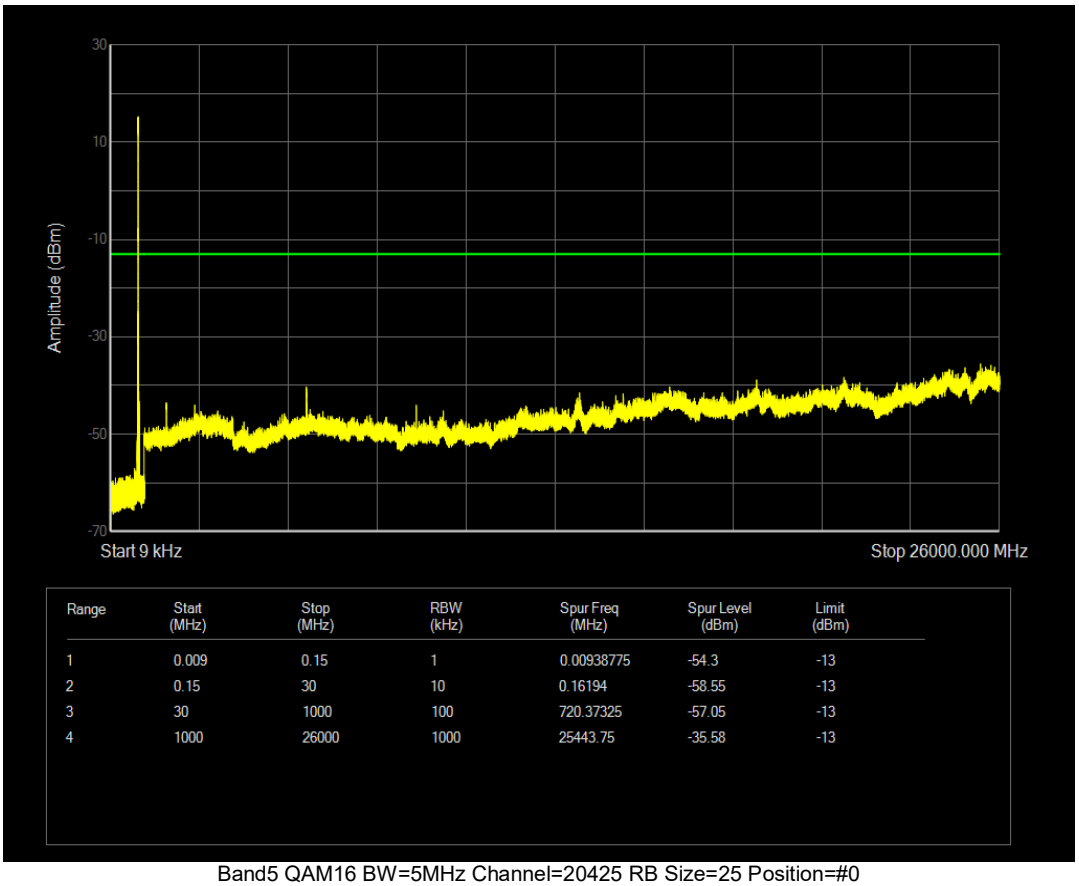

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009771975 | -55.86 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15223875 | -58.53 | -13 |
| 3 | 30 | 1000 | 100 | 997.09 | -57.57 | -13 |
| 4 | 1000 | 26000 | 1000 | 25028.75 | -36.47 | -13 |

Band5 QAM16 BW=3MHz Channel=20635 RB Size=15 Position=#0



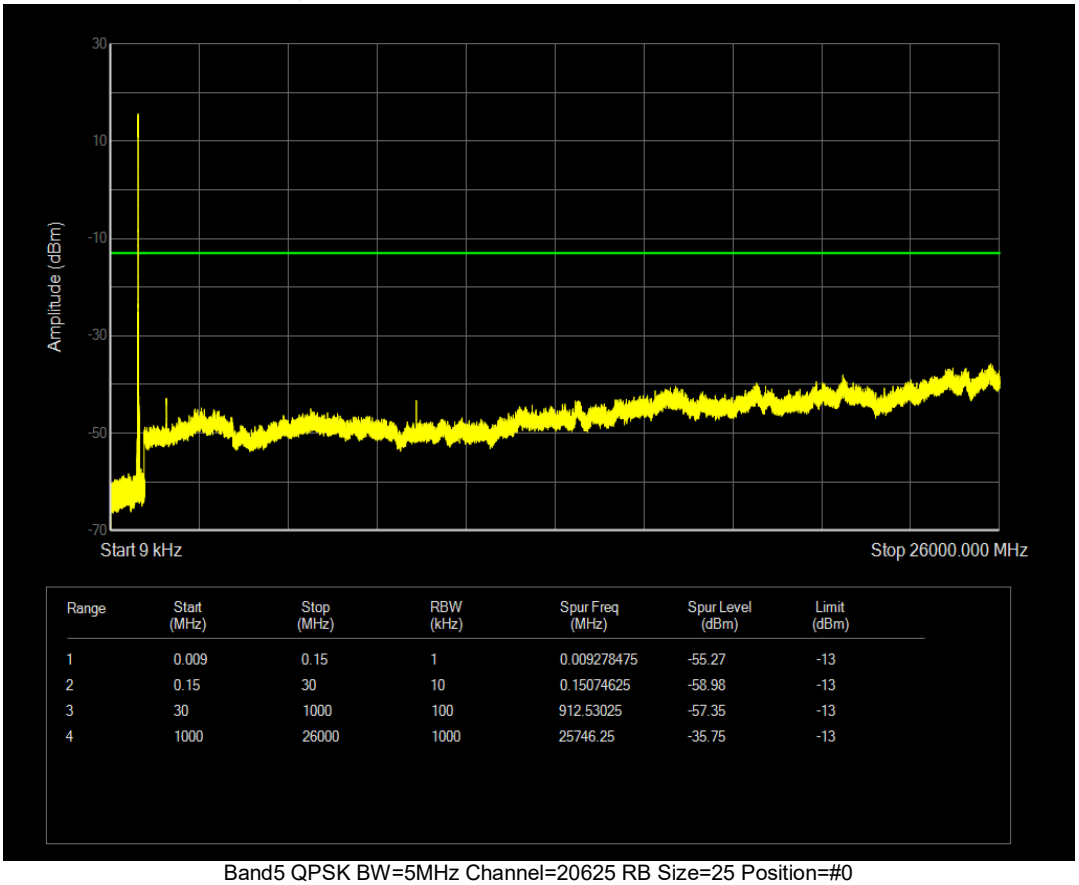

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.01319475 | -56.85 | -13 |
| 2 | 0.15 | 30 | 10 | 0.16417875 | -59.25 | -13 |
| 3 | 30 | 1000 | 100 | 694.838 | -57.67 | -13 |
| 4 | 1000 | 26000 | 1000 | 25698.125 | -35.23 | -13 |

Band5 QPSK BW=5MHz Channel=20425 RB Size=25 Position=#0



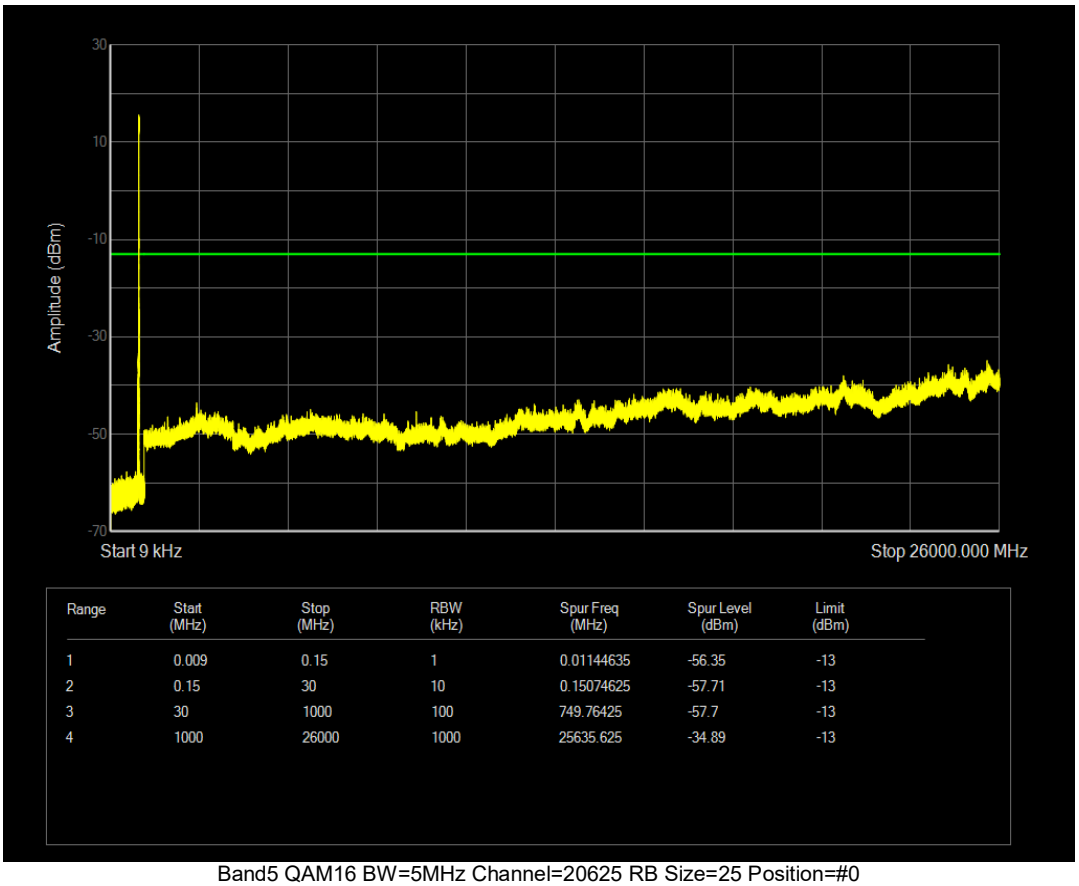

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.00938775 | -54.3 | -13 |
| 2 | 0.15 | 30 | 10 | 0.16194 | -58.55 | -13 |
| 3 | 30 | 1000 | 100 | 720.37325 | -57.05 | -13 |
| 4 | 1000 | 26000 | 1000 | 25443.75 | -35.58 | -13 |

Band5 QAM16 BW=5MHz Channel=20425 RB Size=25 Position=#0



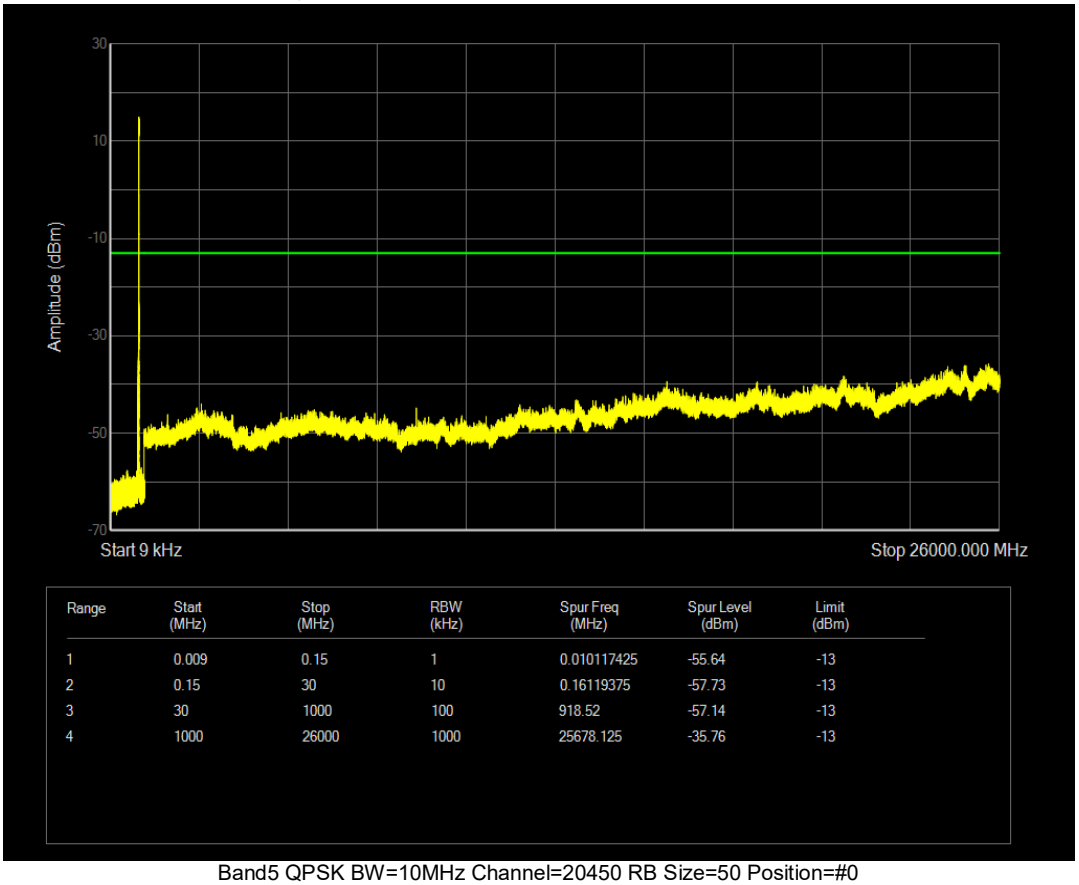

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009278475 | -55.27 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15074625 | -58.98 | -13 |
| 3 | 30 | 1000 | 100 | 912.53025 | -57.35 | -13 |
| 4 | 1000 | 26000 | 1000 | 25746.25 | -35.75 | -13 |

Band5 QPSK BW=5MHz Channel=20625 RB Size=25 Position=#0



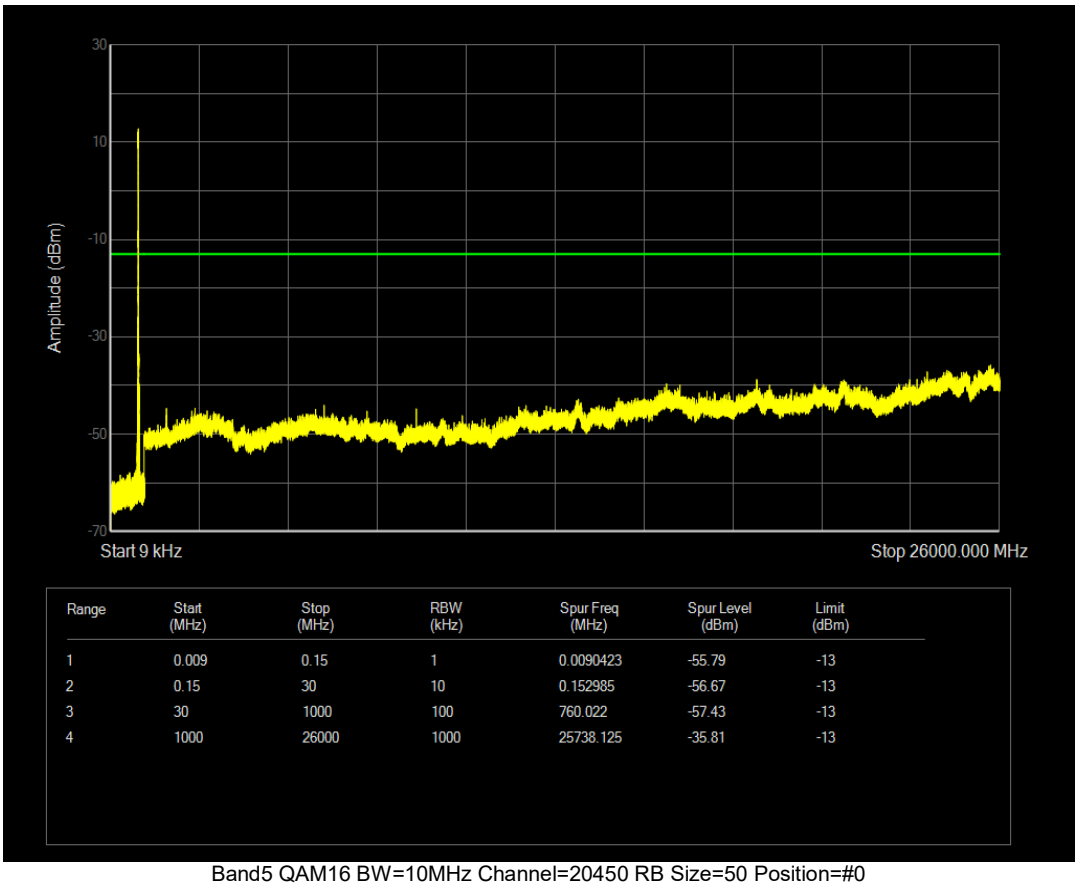

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.01144635 | -56.35 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15074625 | -57.71 | -13 |
| 3 | 30 | 1000 | 100 | 749.76425 | -57.7 | -13 |
| 4 | 1000 | 26000 | 1000 | 25635.625 | -34.89 | -13 |

Band5 QAM16 BW=5MHz Channel=20625 RB Size=25 Position=#0



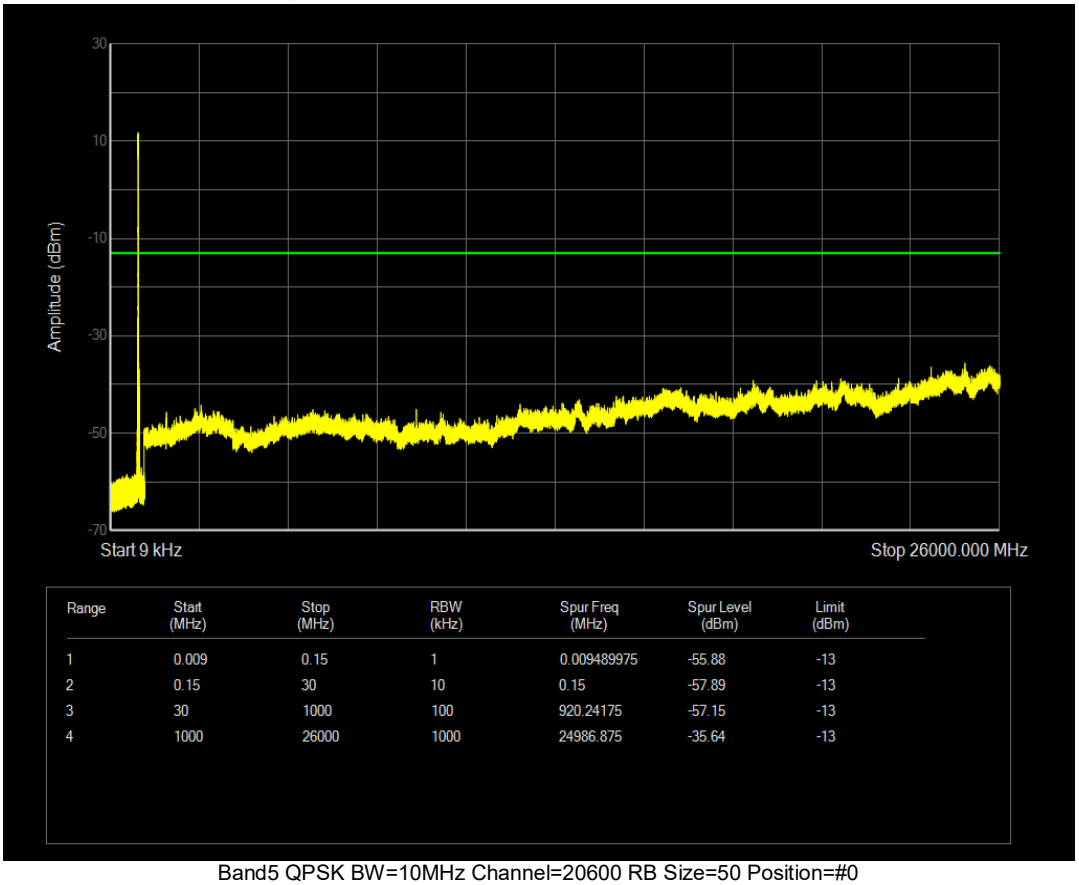

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.010117425 | -55.64 | -13 |
| 2 | 0.15 | 30 | 10 | 0.16119375 | -57.73 | -13 |
| 3 | 30 | 1000 | 100 | 918.52 | -57.14 | -13 |
| 4 | 1000 | 26000 | 1000 | 25678.125 | -35.76 | -13 |

Band5 QPSK BW=10MHz Channel=20450 RB Size=50 Position=#0



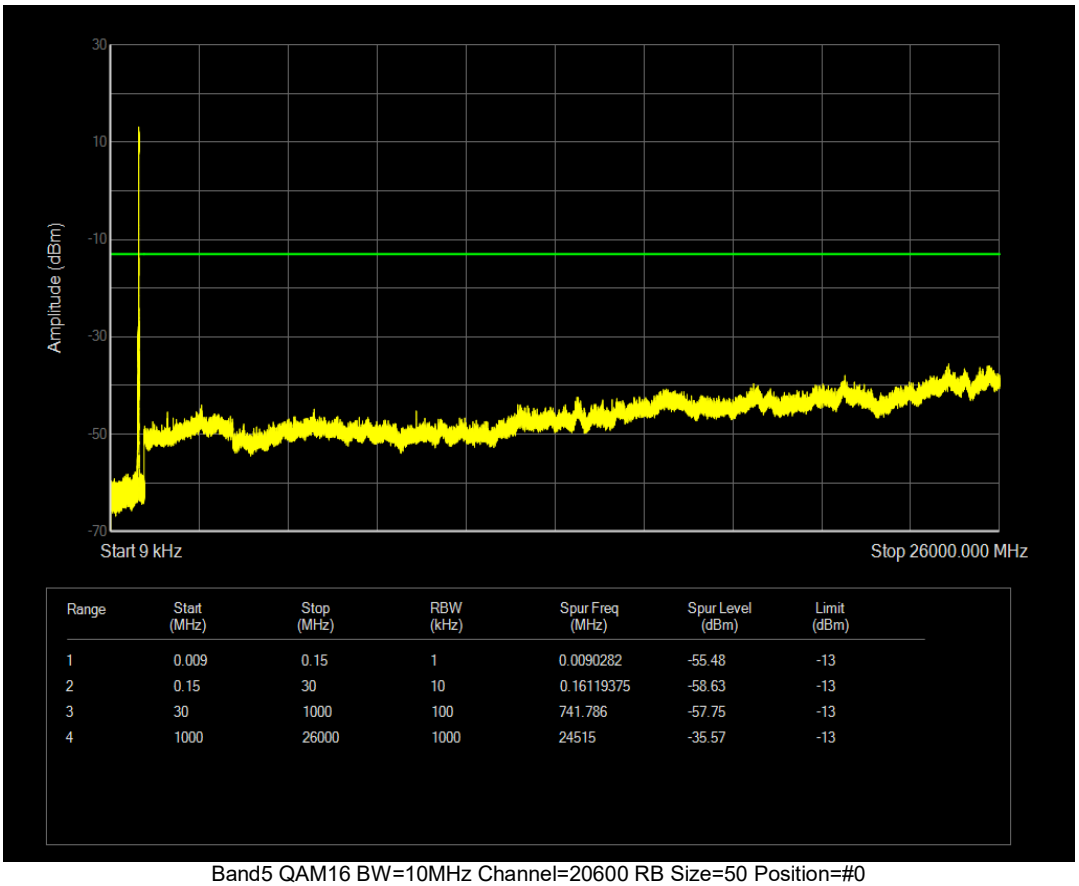

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0090423 | -55.79 | -13 |
| 2 | 0.15 | 30 | 10 | 0.152985 | -56.67 | -13 |
| 3 | 30 | 1000 | 100 | 760.022 | -57.43 | -13 |
| 4 | 1000 | 26000 | 1000 | 25738.125 | -35.81 | -13 |

Band5 QAM16 BW=10MHz Channel=20450 RB Size=50 Position=#0



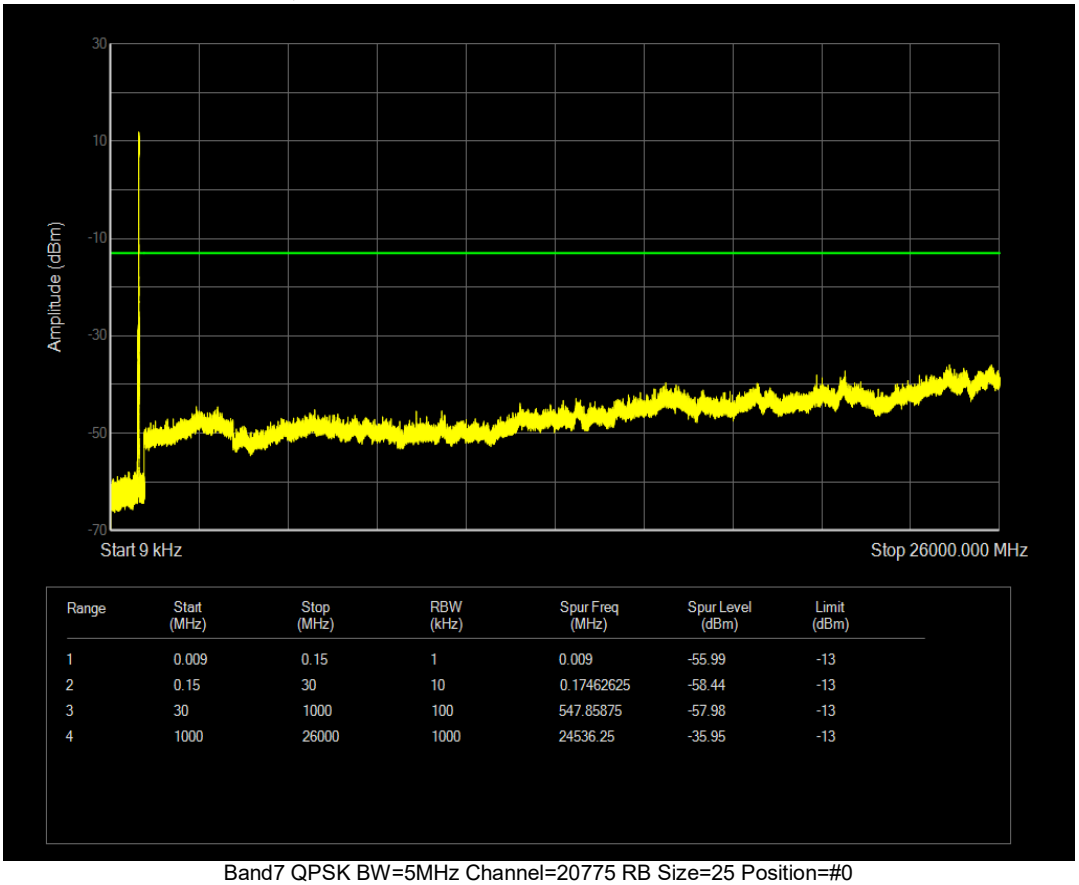

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009489975 | -55.88 | -13 |
| 2 | 0.15 | 30 | 10 | 0.15 | -57.89 | -13 |
| 3 | 30 | 1000 | 100 | 920.24175 | -57.15 | -13 |
| 4 | 1000 | 26000 | 1000 | 24986.875 | -35.64 | -13 |

Band5 QPSK BW=10MHz Channel=20600 RB Size=50 Position=#0



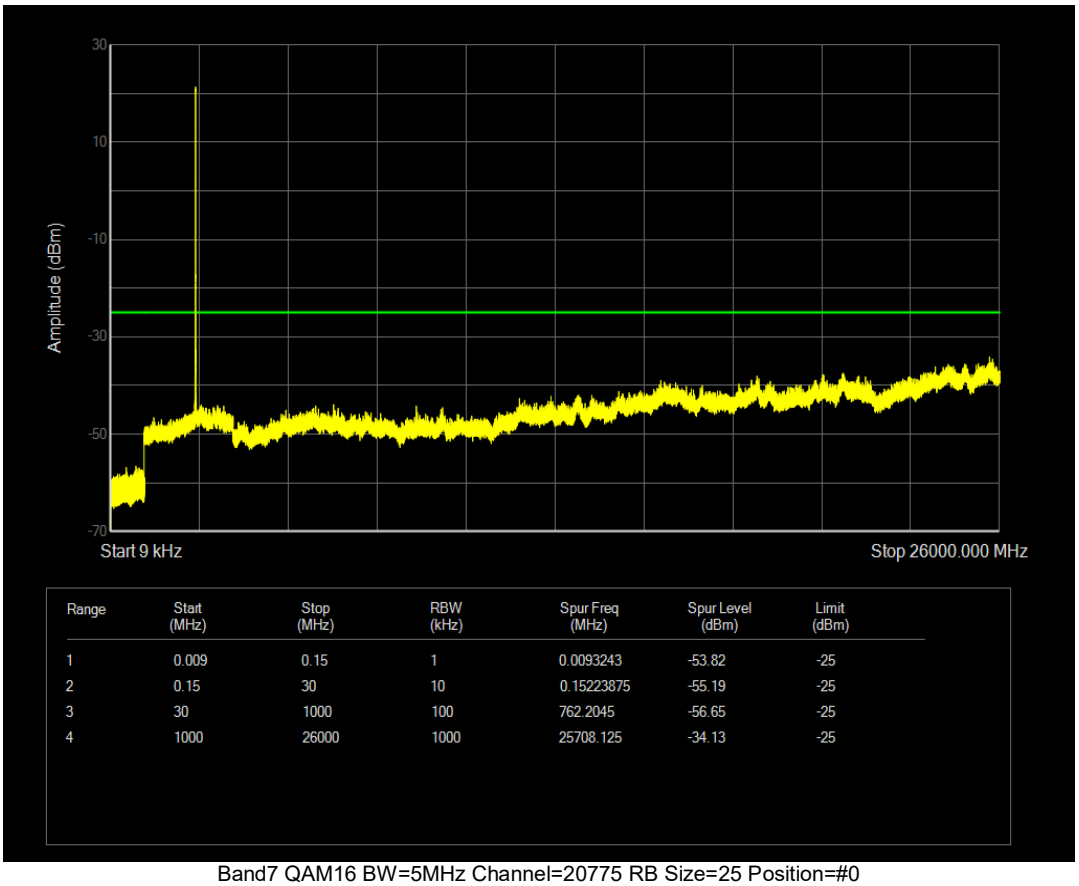

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0090282 | -55.48 | -13 |
| 2 | 0.15 | 30 | 10 | 0.16119375 | -58.63 | -13 |
| 3 | 30 | 1000 | 100 | 741.786 | -57.75 | -13 |
| 4 | 1000 | 26000 | 1000 | 24515 | -35.57 | -13 |

Band5 QAM16 BW=10MHz Channel=20600 RB Size=50 Position=#0



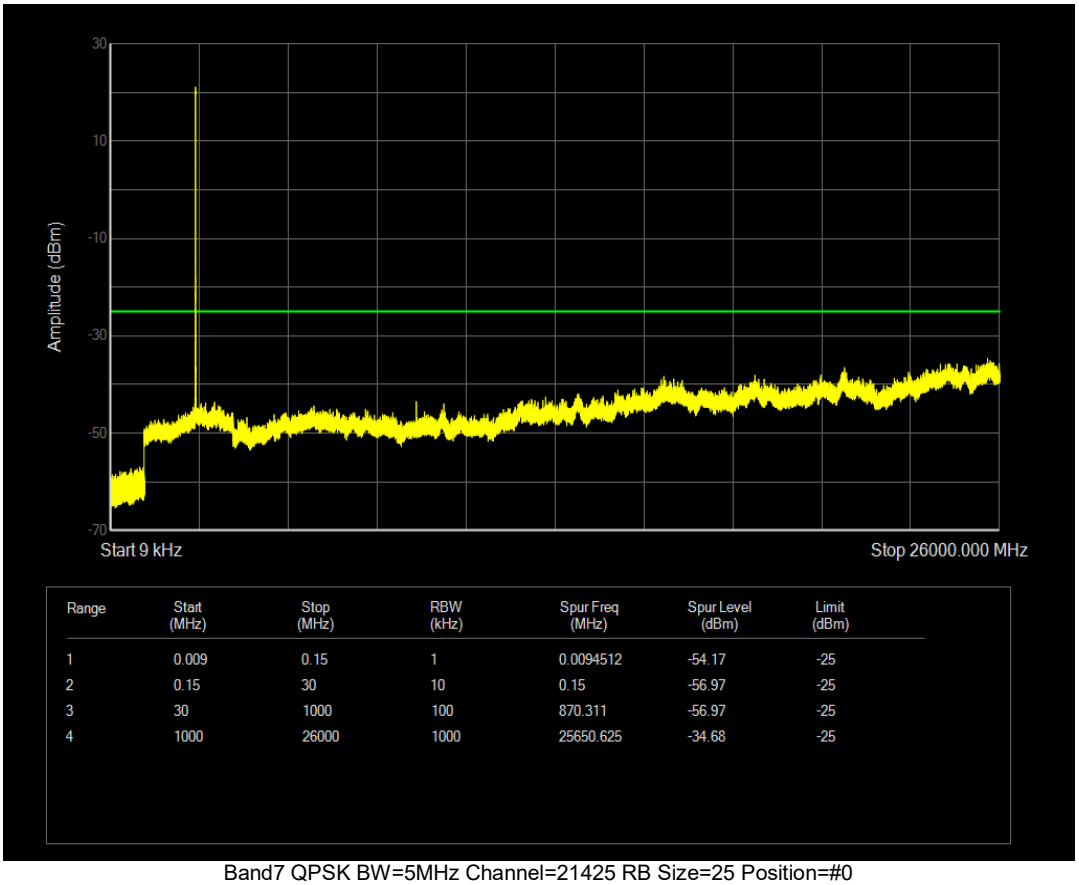

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009 | -55.99 | -13 |
| 2 | 0.15 | 30 | 10 | 0.17462625 | -58.44 | -13 |
| 3 | 30 | 1000 | 100 | 547.85875 | -57.98 | -13 |
| 4 | 1000 | 26000 | 1000 | 24536.25 | -35.95 | -13 |

Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0



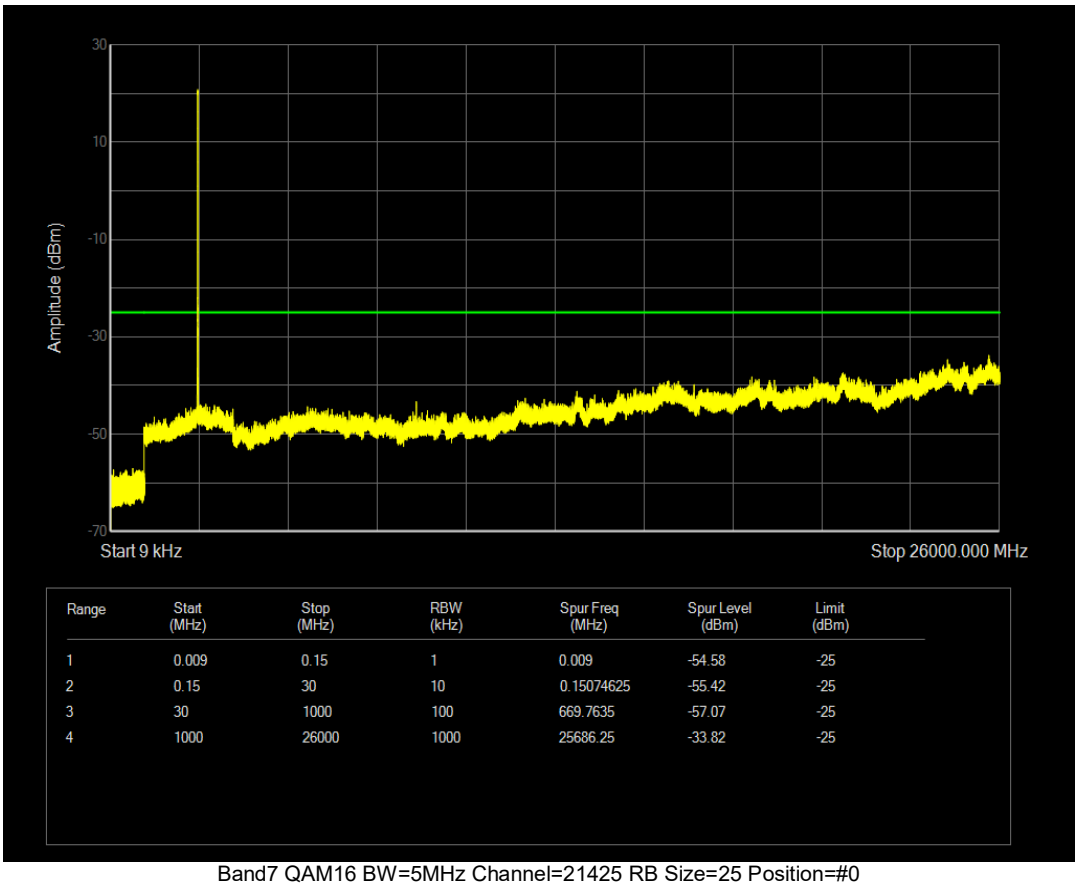

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0093243 | -53.82 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15223875 | -55.19 | -25 |
| 3 | 30 | 1000 | 100 | 762.2045 | -56.65 | -25 |
| 4 | 1000 | 26000 | 1000 | 25708.125 | -34.13 | -25 |

Band7 QAM16 BW=5MHz Channel=20775 RB Size=25 Position=#0



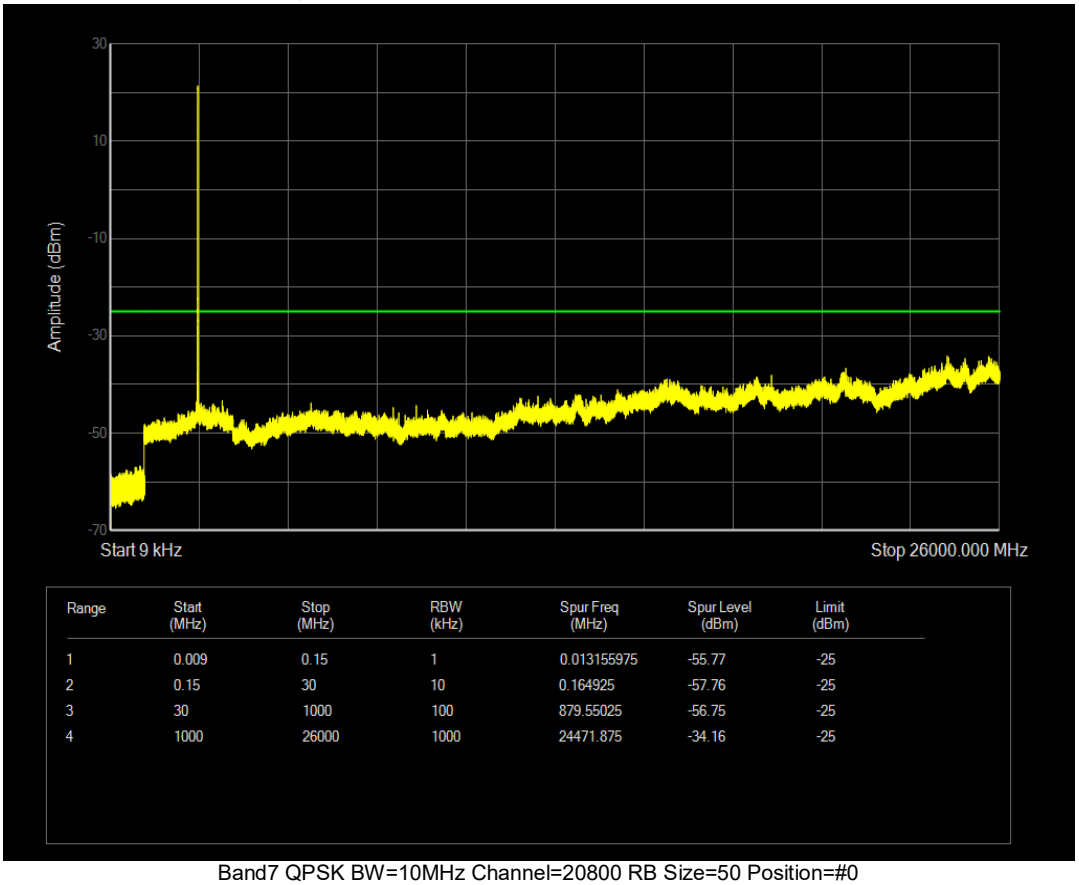

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0094512 | -54.17 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15 | -56.97 | -25 |
| 3 | 30 | 1000 | 100 | 870.311 | -56.97 | -25 |
| 4 | 1000 | 26000 | 1000 | 25650.625 | -34.68 | -25 |

Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0



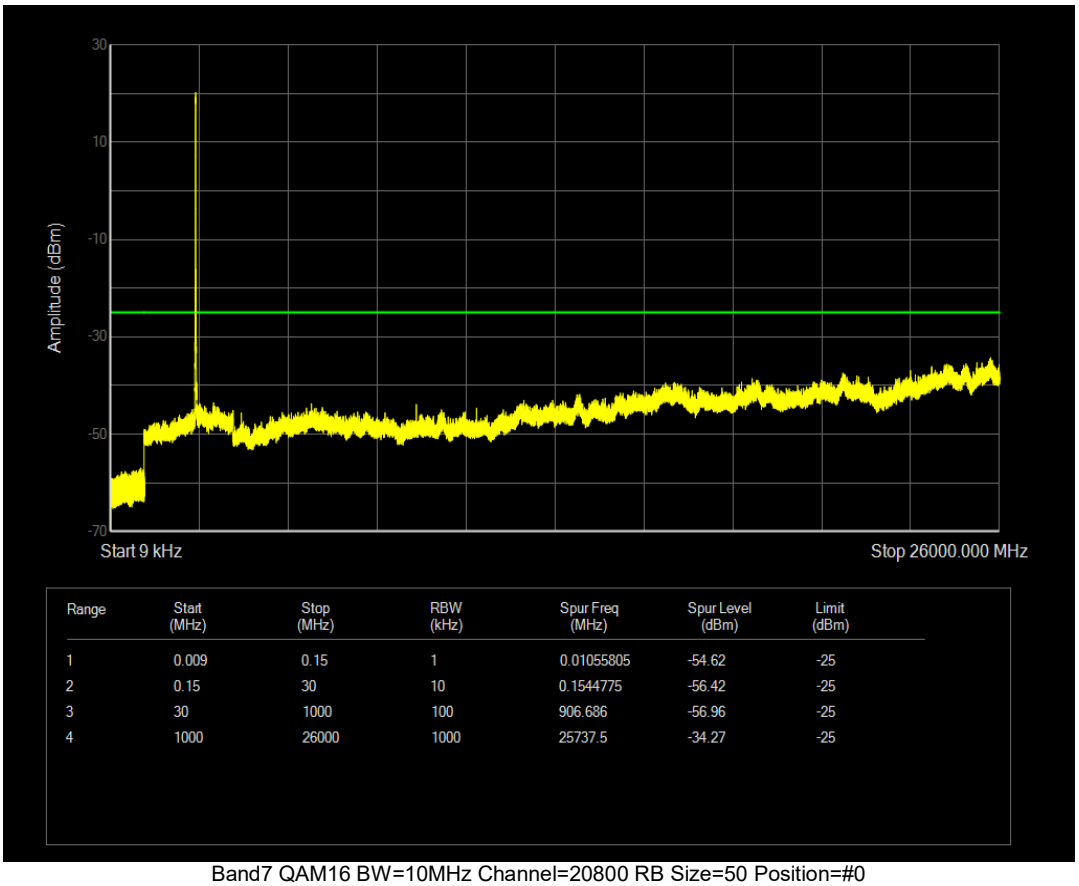

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009 | -54.58 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15074625 | -55.42 | -25 |
| 3 | 30 | 1000 | 100 | 669.7635 | -57.07 | -25 |
| 4 | 1000 | 26000 | 1000 | 25686.25 | -33.82 | -25 |

Band7 QAM16 BW=5MHz Channel=21425 RB Size=25 Position=#0



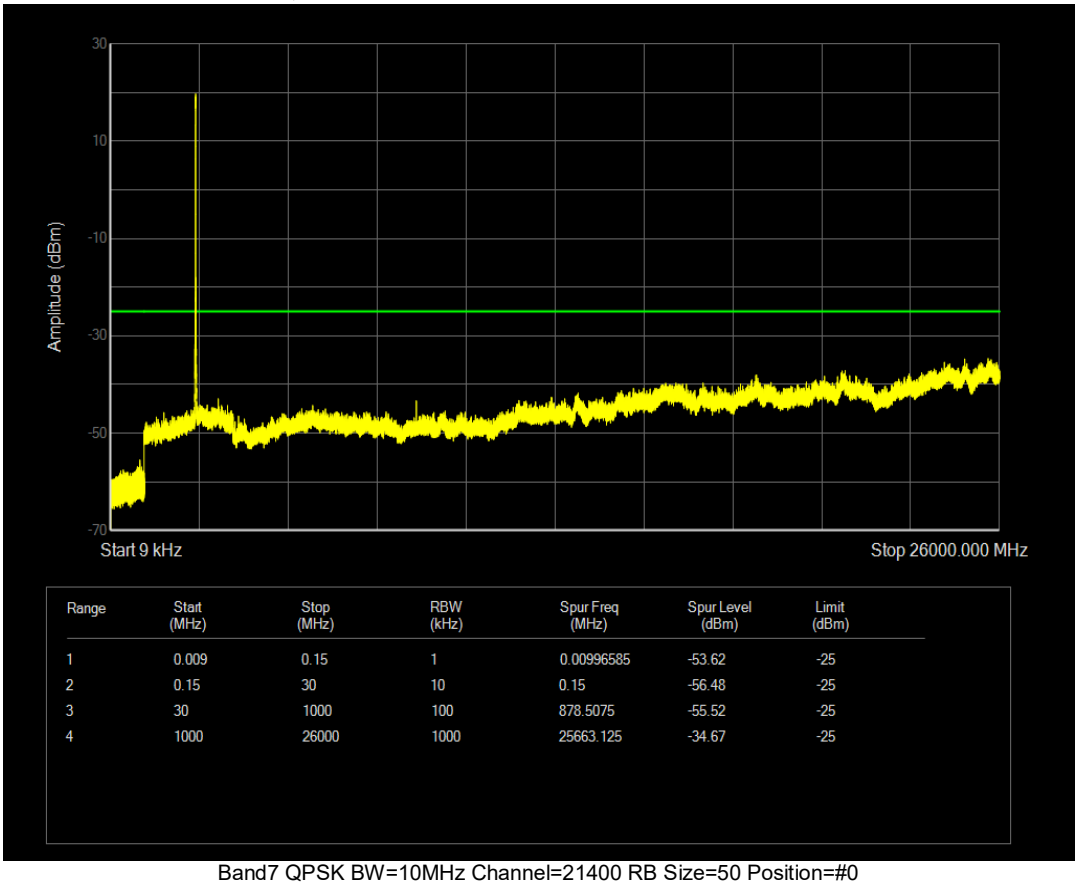

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.013155975 | -55.77 | -25 |
| 2 | 0.15 | 30 | 10 | 0.164925 | -57.76 | -25 |
| 3 | 30 | 1000 | 100 | 879.55025 | -56.75 | -25 |
| 4 | 1000 | 26000 | 1000 | 24471.875 | -34.16 | -25 |

Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0



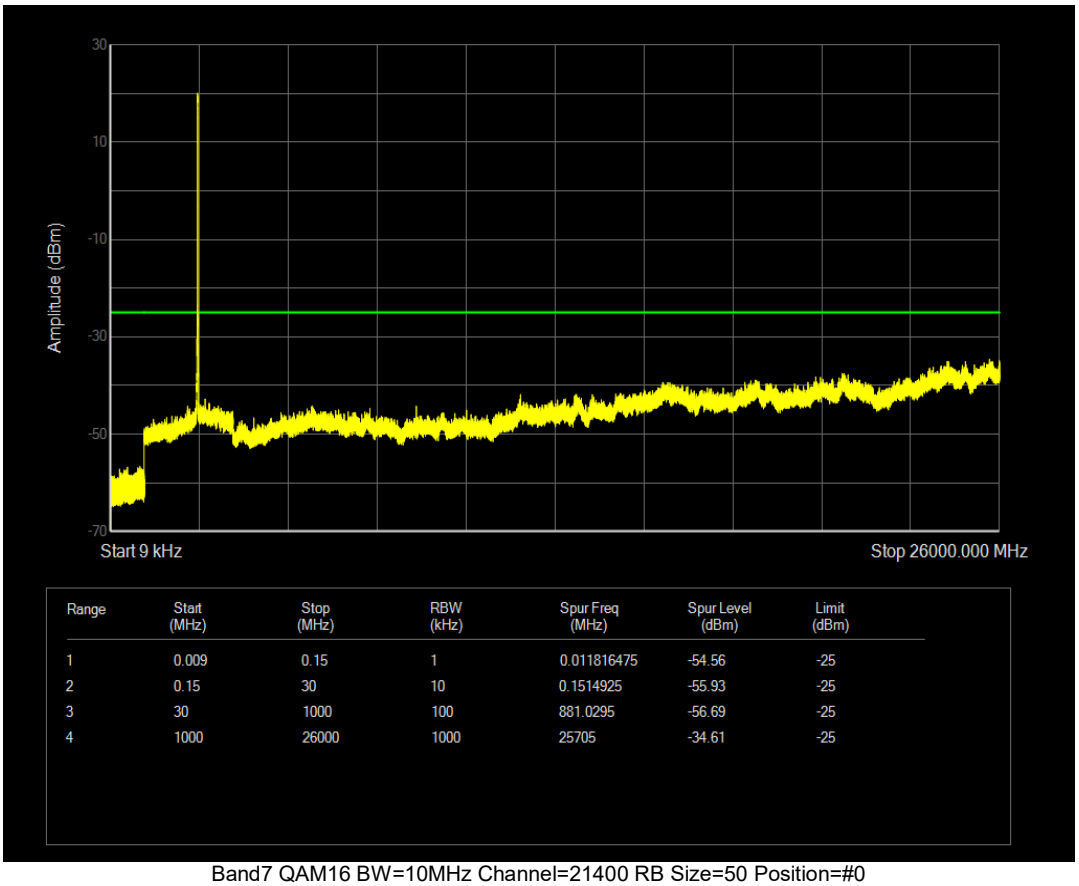

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.01055805 | -54.62 | -25 |
| 2 | 0.15 | 30 | 10 | 0.1544775 | -56.42 | -25 |
| 3 | 30 | 1000 | 100 | 906.686 | -56.96 | -25 |
| 4 | 1000 | 26000 | 1000 | 25737.5 | -34.27 | -25 |

Band7 QAM16 BW=10MHz Channel=20800 RB Size=50 Position=#0



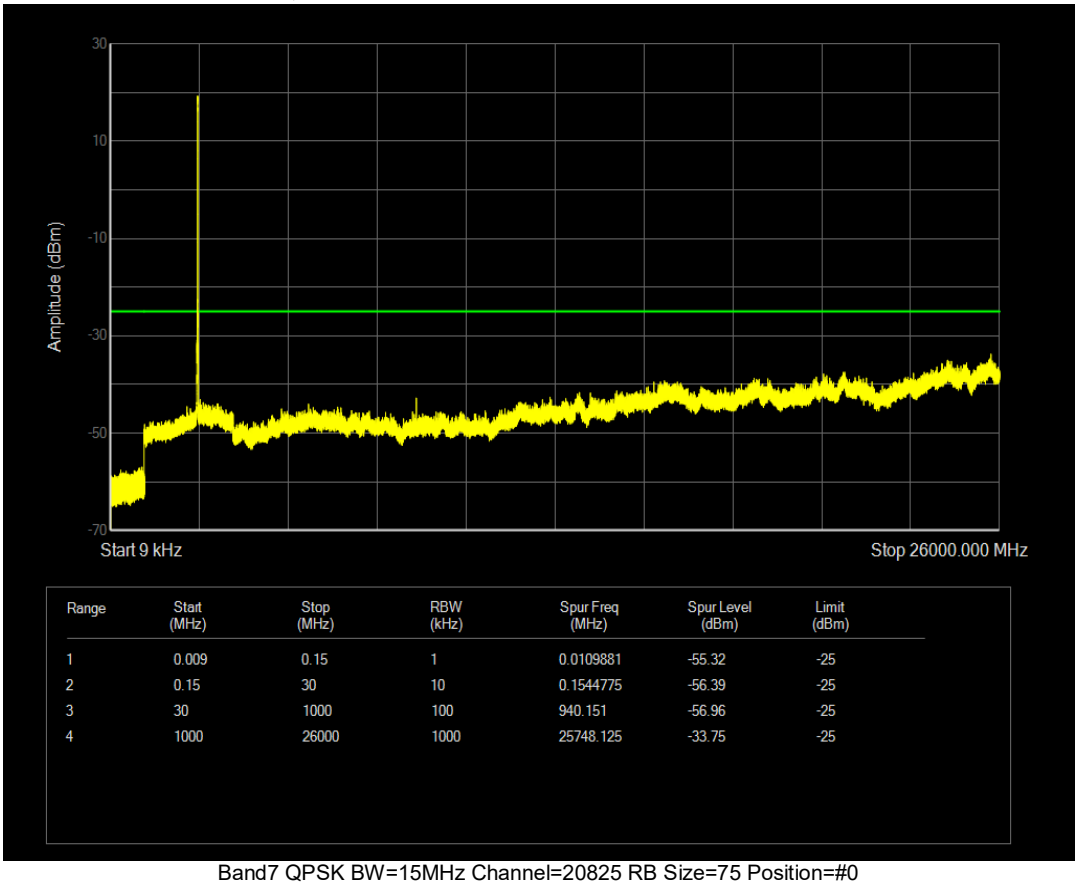

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.00996585 | -53.62 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15 | -56.48 | -25 |
| 3 | 30 | 1000 | 100 | 878.5075 | -55.52 | -25 |
| 4 | 1000 | 26000 | 1000 | 25663.125 | -34.67 | -25 |

Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0



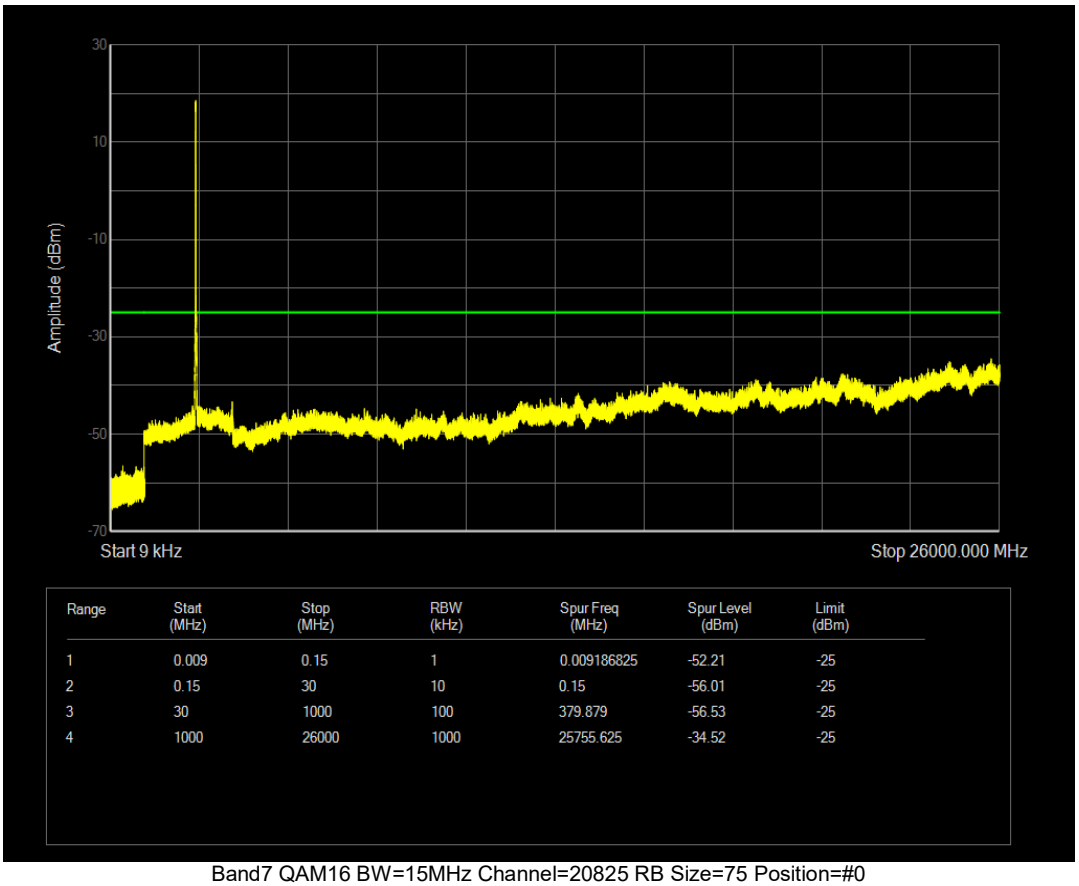

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.011816475 | -54.56 | -25 |
| 2 | 0.15 | 30 | 10 | 0.1514925 | -55.93 | -25 |
| 3 | 30 | 1000 | 100 | 881.0295 | -56.69 | -25 |
| 4 | 1000 | 26000 | 1000 | 25705 | -34.61 | -25 |

Band7 QAM16 BW=10MHz Channel=21400 RB Size=50 Position=#0



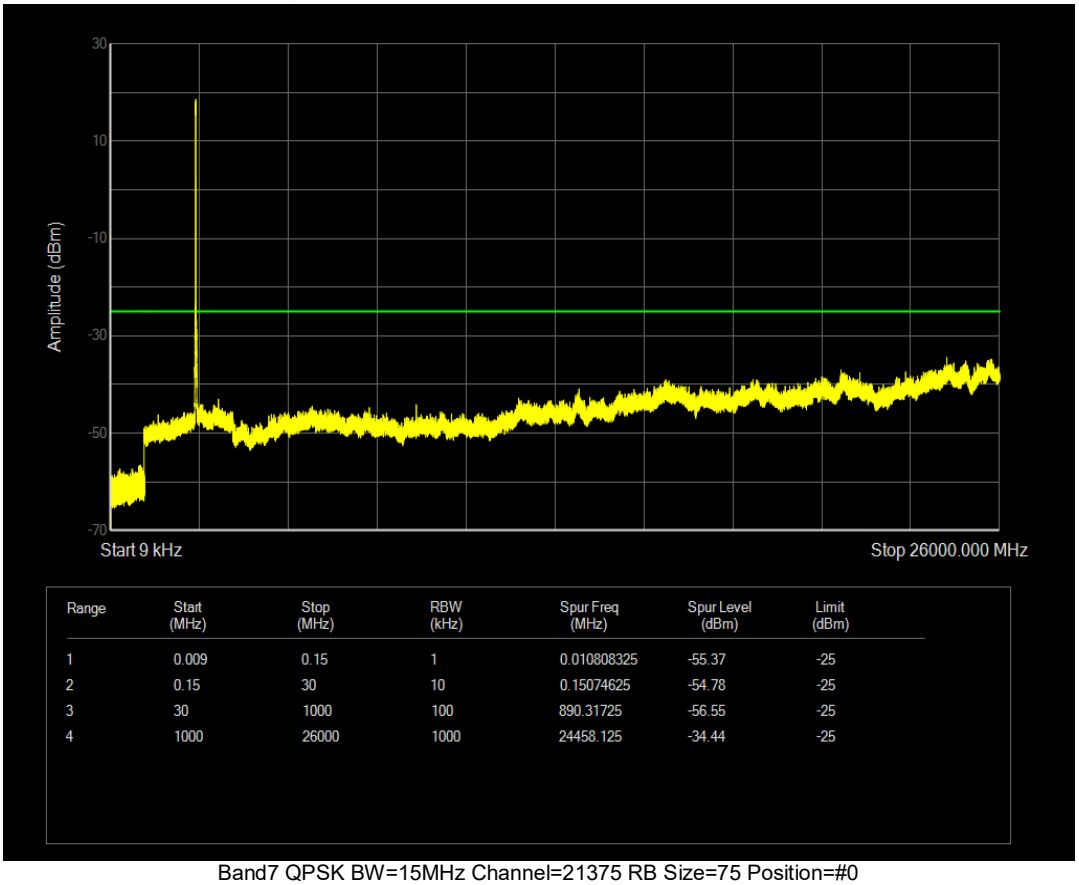

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0109881 | -55.32 | -25 |
| 2 | 0.15 | 30 | 10 | 0.1544775 | -56.39 | -25 |
| 3 | 30 | 1000 | 100 | 940.151 | -56.96 | -25 |
| 4 | 1000 | 26000 | 1000 | 25748.125 | -33.75 | -25 |

Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0



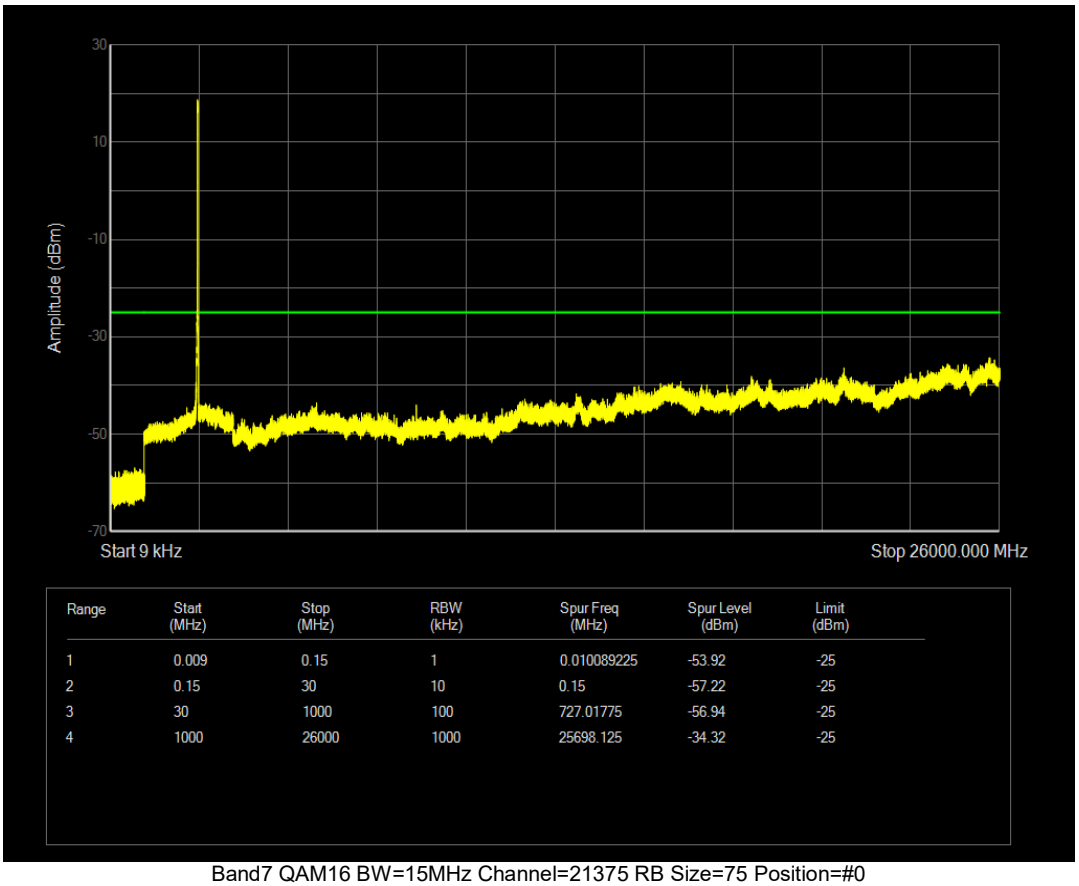

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009186825 | -52.21 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15 | -56.01 | -25 |
| 3 | 30 | 1000 | 100 | 379.879 | -56.53 | -25 |
| 4 | 1000 | 26000 | 1000 | 25755.625 | -34.52 | -25 |

Band7 QAM16 BW=15MHz Channel=20825 RB Size=75 Position=#0



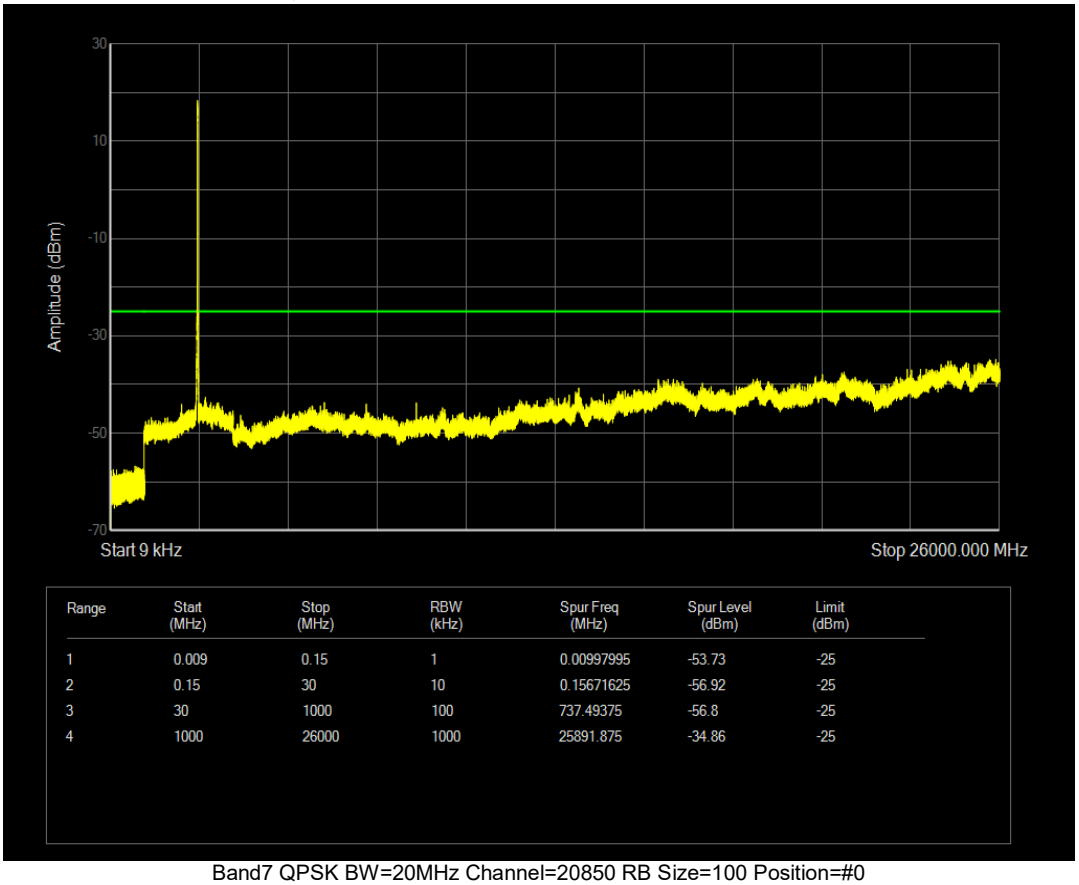

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.010808325 | -55.37 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15074625 | -54.78 | -25 |
| 3 | 30 | 1000 | 100 | 890.31725 | -56.55 | -25 |
| 4 | 1000 | 26000 | 1000 | 24458.125 | -34.44 | -25 |

Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0



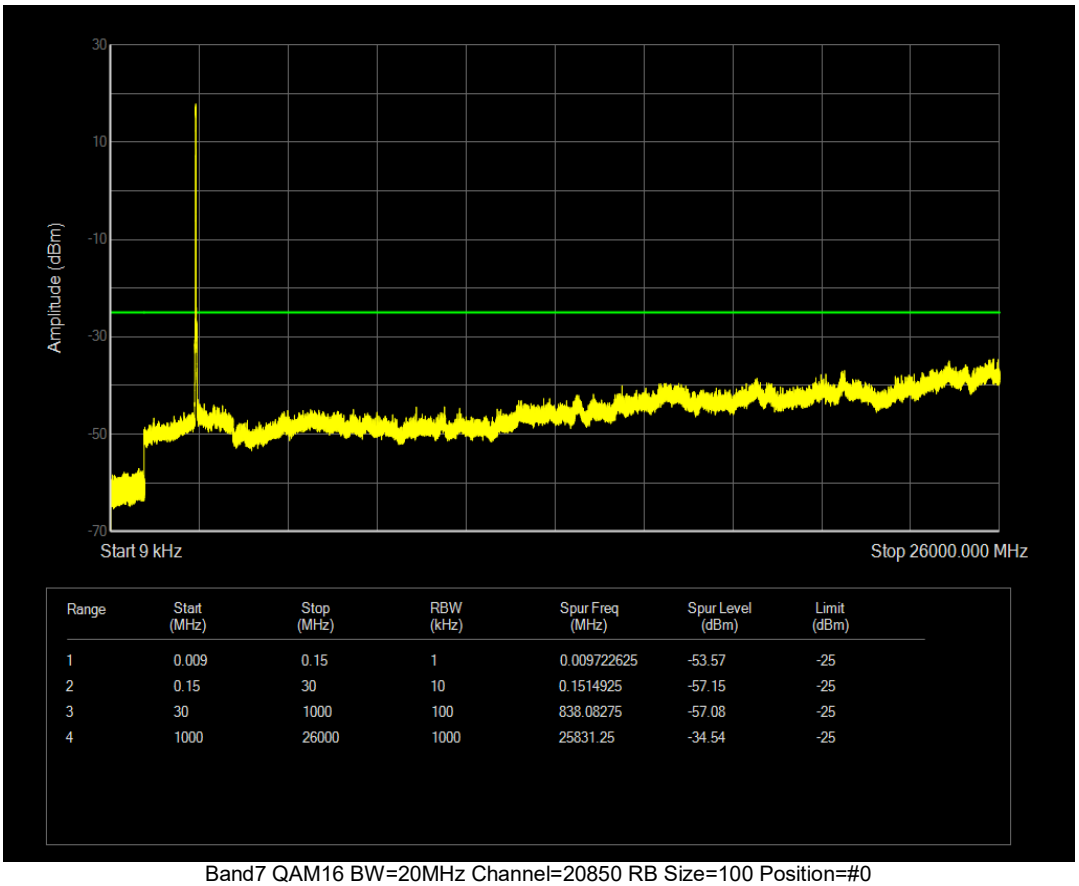

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.010089225 | -53.92 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15 | -57.22 | -25 |
| 3 | 30 | 1000 | 100 | 727.01775 | -56.94 | -25 |
| 4 | 1000 | 26000 | 1000 | 25698.125 | -34.32 | -25 |

Band7 QAM16 BW=15MHz Channel=21375 RB Size=75 Position=#0



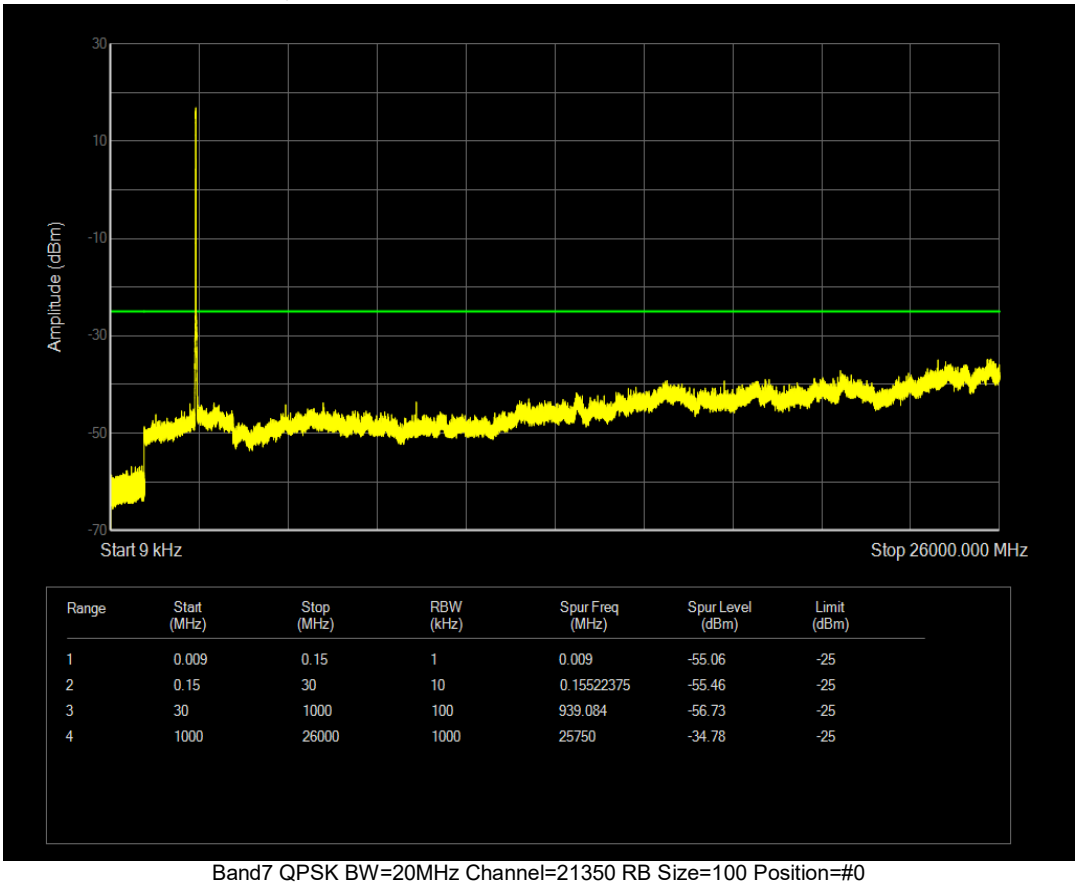

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.00997995 | -53.73 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15671625 | -56.92 | -25 |
| 3 | 30 | 1000 | 100 | 737.49375 | -56.8 | -25 |
| 4 | 1000 | 26000 | 1000 | 25891.875 | -34.86 | -25 |

Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0



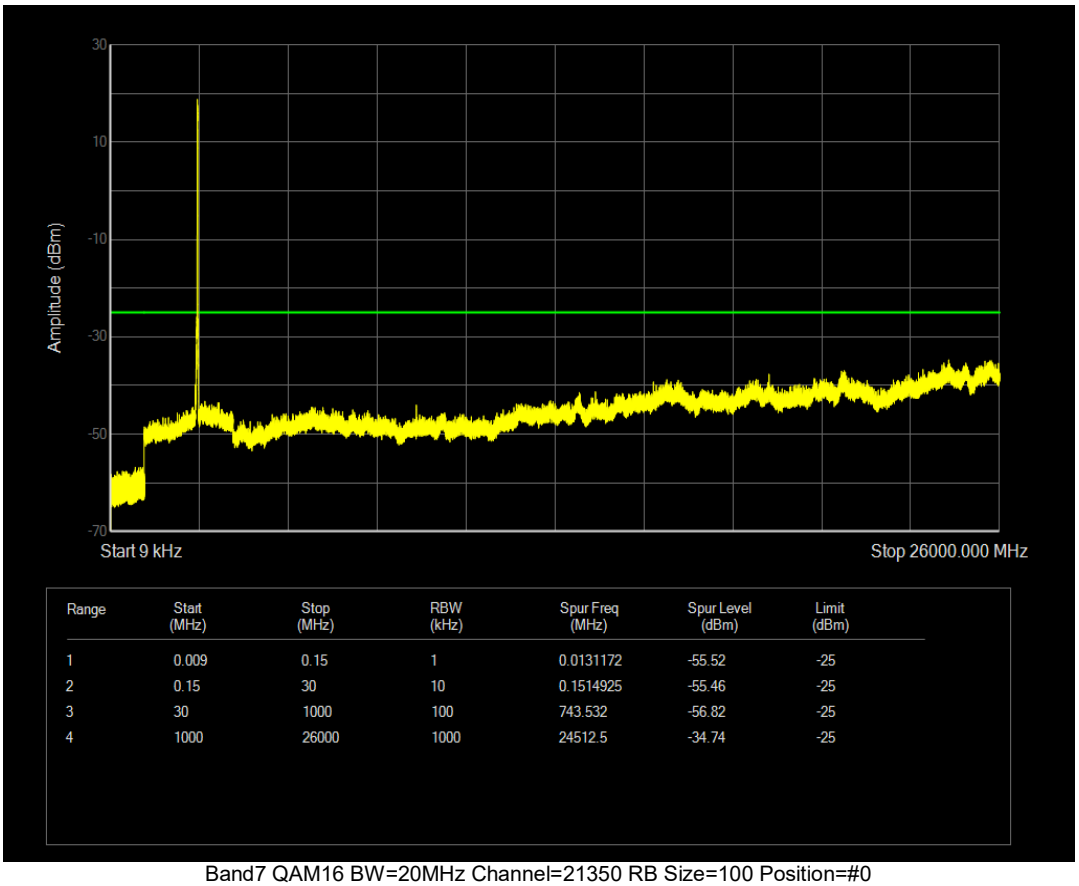

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009722625 | -53.57 | -25 |
| 2 | 0.15 | 30 | 10 | 0.1514925 | -57.15 | -25 |
| 3 | 30 | 1000 | 100 | 838.08275 | -57.08 | -25 |
| 4 | 1000 | 26000 | 1000 | 25831.25 | -34.54 | -25 |

Band7 QAM16 BW=20MHz Channel=20850 RB Size=100 Position=#0



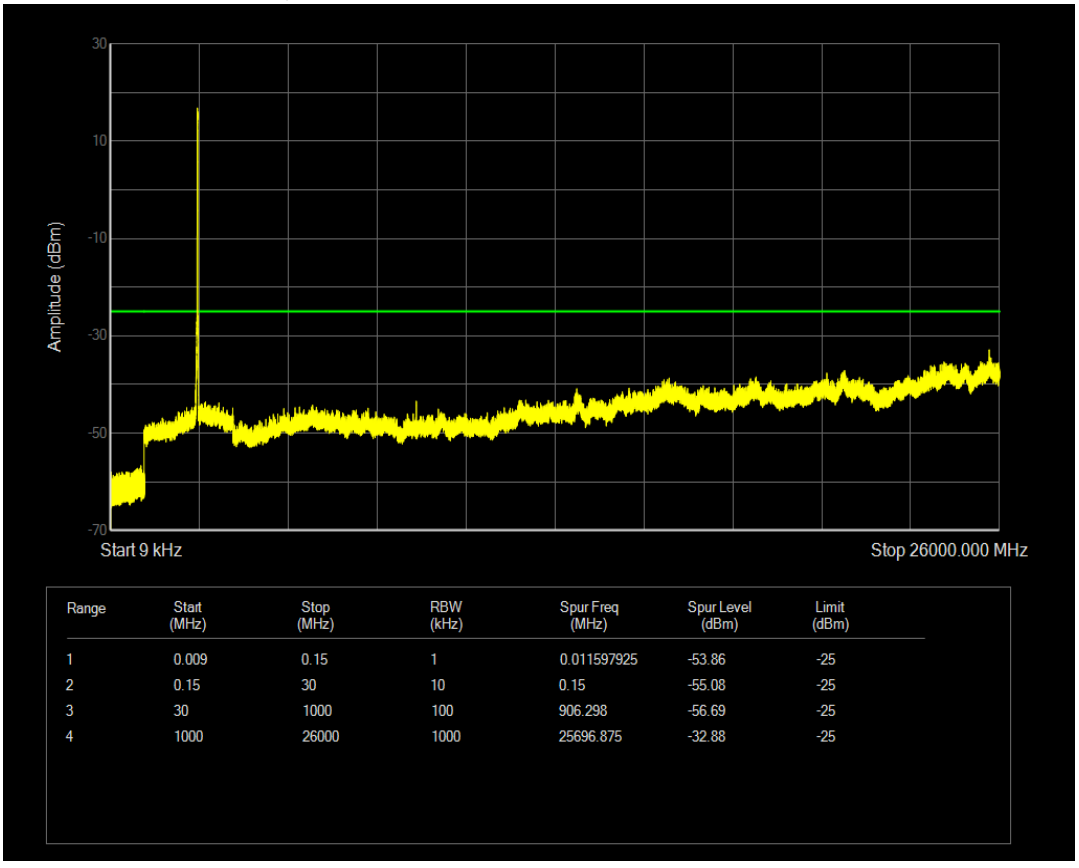

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009 | -55.06 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15522375 | -55.46 | -25 |
| 3 | 30 | 1000 | 100 | 939.084 | -56.73 | -25 |
| 4 | 1000 | 26000 | 1000 | 25750 | -34.78 | -25 |

Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0131172 | -55.52 | -25 |
| 2 | 0.15 | 30 | 10 | 0.1514925 | -55.46 | -25 |
| 3 | 30 | 1000 | 100 | 743.532 | -56.82 | -25 |
| 4 | 1000 | 26000 | 1000 | 24512.5 | -34.74 | -25 |

Band7 QAM16 BW=20MHz Channel=21350 RB Size=100 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.011597925 | -53.86 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15 | -55.08 | -25 |
| 3 | 30 | 1000 | 100 | 906.298 | -56.69 | -25 |
| 4 | 1000 | 26000 | 1000 | 25696.875 | -32.88 | -25 |

## Appendix F: Frequency Stability

**Band 2**
**Channel Bandwidth: 1.4 MHz**

| Channel Bandwidth: 1.4MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 3.00 | 0.001621 | ± 2.5 | PASS |
| | | VN | TN | 2.08 | 0.001124 | ± 2.5 | PASS |
| | | VH | TN | 4.72 | 0.002550 | ± 2.5 | PASS |
| | MCH | VL | TN | -1.74 | -0.000926 | ± 2.5 | PASS |
| | | VN | TN | 2.96 | 0.001574 | ± 2.5 | PASS |
| | | VH | TN | 0.10 | 0.000053 | ± 2.5 | PASS |
| | HCH | VL | TN | 3.28 | 0.001718 | ± 2.5 | PASS |
| | | VN | TN | 2.16 | 0.001131 | ± 2.5 | PASS |
| | | VH | TN | -0.15 | -0.000079 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | -1.04 | -0.000562 | ± 2.5 | PASS |
| | | VN | TN | 1.93 | 0.001043 | ± 2.5 | PASS |
| | | VH | TN | 0.28 | 0.000151 | ± 2.5 | PASS |
| | MCH | VL | TN | 1.30 | 0.000691 | ± 2.5 | PASS |
| | | VN | TN | 4.27 | 0.002271 | ± 2.5 | PASS |
| | | VH | TN | 2.38 | 0.001266 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.63 | -0.000330 | ± 2.5 | PASS |
| | | VN | TN | 2.30 | 0.001205 | ± 2.5 | PASS |
| | | VH | TN | 3.07 | 0.001608 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 2.98 | 0.001610 | ± 2.5 | PASS |
| | | VN | -20 | 2.10 | 0.001135 | ± 2.5 | PASS |
| | | VN | -10 | 4.77 | 0.002577 | ± 2.5 | PASS |
| | | VN | 0 | -1.85 | -0.001000 | ± 2.5 | PASS |
| | | VN | 10 | 3.59 | 0.001940 | ± 2.5 | PASS |
| | | VN | 20 | -0.57 | -0.000308 | ± 2.5 | PASS |
| | | VN | 30 | 1.35 | 0.000729 | ± 2.5 | PASS |
| | | VN | 40 | -1.46 | -0.000789 | ± 2.5 | PASS |
| | | VN | 50 | -0.17 | -0.000092 | ± 2.5 | PASS |
| | MCH | VN | -30 | 4.89 | 0.002601 | ± 2.5 | PASS |
| | | VN | -20 | 0.28 | 0.000149 | ± 2.5 | PASS |
| | | VN | -10 | 3.53 | 0.001878 | ± 2.5 | PASS |
| | | VN | 0 | 1.76 | 0.000936 | ± 2.5 | PASS |
| | | VN | 10 | 4.07 | 0.002165 | ± 2.5 | PASS |
| | | VN | 20 | 3.68 | 0.001957 | ± 2.5 | PASS |
| | | VN | 30 | 2.49 | 0.001324 | ± 2.5 | PASS |
| | | VN | 40 | -0.65 | -0.000346 | ± 2.5 | PASS |
| | | VN | 50 | 2.87 | 0.001527 | ± 2.5 | PASS |
| | HCH | VN | -30 | -1.83 | -0.000958 | ± 2.5 | PASS |
| | | VN | -20 | -1.45 | -0.000759 | ± 2.5 | PASS |
| | | VN | -10 | 0.54 | 0.000283 | ± 2.5 | PASS |
| | | VN | 0 | 1.37 | 0.000718 | ± 2.5 | PASS |
| | | VN | 10 | 0.9 | 0.000471 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 20 | 2.91 | 0.001524 | ± 2.5 | PASS |
| | | VN | 30 | 2.43 | 0.001273 | ± 2.5 | PASS |
| | | VN | 40 | 4.29 | 0.002247 | ± 2.5 | PASS |
| | | VN | 50 | 4.95 | 0.002593 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -1.27 | -0.000686 | ± 2.5 | PASS |
| | | VN | -20 | 3.15 | 0.001702 | ± 2.5 | PASS |
| | | VN | -10 | -0.72 | -0.000389 | ± 2.5 | PASS |
| | | VN | 0 | 2.46 | 0.001329 | ± 2.5 | PASS |
| | | VN | 10 | 1.69 | 0.000913 | ± 2.5 | PASS |
| | | VN | 20 | 0.48 | 0.000259 | ± 2.5 | PASS |
| | | VN | 30 | 4.37 | 0.002361 | ± 2.5 | PASS |
| | | VN | 40 | 4.83 | 0.002610 | ± 2.5 | PASS |
| | | VN | 50 | 1.88 | 0.001016 | ± 2.5 | PASS |
| | MCH | VN | -30 | -1.18 | -0.000628 | ± 2.5 | PASS |
| | | VN | -20 | 2.67 | 0.001420 | ± 2.5 | PASS |
| | | VN | -10 | 4.11 | 0.002186 | ± 2.5 | PASS |
| | | VN | 0 | 3.91 | 0.002080 | ± 2.5 | PASS |
| | | VN | 10 | -1.30 | -0.000691 | ± 2.5 | PASS |
| | | VN | 20 | 2.04 | 0.001085 | ± 2.5 | PASS |
| | | VN | 30 | -1.60 | -0.000851 | ± 2.5 | PASS |
| | | VN | 40 | 3.67 | 0.001952 | ± 2.5 | PASS |
| | | VN | 50 | 4.66 | 0.002479 | ± 2.5 | PASS |
| | HCH | VN | -30 | -0.97 | -0.000508 | ± 2.5 | PASS |
| | | VN | -20 | -0.43 | -0.000225 | ± 2.5 | PASS |
| | | VN | -10 | 3.42 | 0.001791 | ± 2.5 | PASS |
| | | VN | 0 | 3.82 | 0.002001 | ± 2.5 | PASS |
| | | VN | 10 | 4.09 | 0.002142 | ± 2.5 | PASS |
| | | VN | 20 | 1.27 | 0.000665 | ± 2.5 | PASS |
| | | VN | 30 | 4.09 | 0.002142 | ± 2.5 | PASS |
| | | VN | 40 | 2.55 | 0.001336 | ± 2.5 | PASS |
| | | VN | 50 | 2.15 | 0.001126 | ± 2.5 | PASS |

**Channel Bandwidth: 3 MHz**

| Channel Bandwidth: 3.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 2.42 | 0.001307 | ± 2.5 | PASS |
| | | VN | TN | 0.61 | 0.000329 | ± 2.5 | PASS |
| | | VH | TN | -1.52 | -0.000821 | ± 2.5 | PASS |
| | MCH | VL | TN | 2.73 | 0.001452 | ± 2.5 | PASS |
| | | VN | TN | -1.52 | -0.000809 | ± 2.5 | PASS |
| | | VH | TN | 2.63 | 0.001399 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.87 | -0.000456 | ± 2.5 | PASS |
| | | VN | TN | 2.25 | 0.001179 | ± 2.5 | PASS |
| | | VH | TN | -0.57 | -0.000299 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 0.40 | 0.000216 | ± 2.5 | PASS |
| | | VN | TN | 1.64 | 0.000886 | ± 2.5 | PASS |
| | | VH | TN | 3.14 | 0.001696 | ± 2.5 | PASS |
| | | VL | TN | 2.78 | 0.001479 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | MCH | VN | TN | 1.80 | 0.000957 | ± 2.5 | PASS |
| | | VH | TN | -0.95 | -0.000505 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.70 | -0.000367 | ± 2.5 | PASS |
| | | VN | TN | 2.78 | 0.001457 | ± 2.5 | PASS |
| | | VH | TN | 0.95 | 0.000498 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 4.25 | 0.002295 | ± 2.5 | PASS |
| | | VN | -20 | 3.49 | 0.001885 | ± 2.5 | PASS |
| | | VN | -10 | 4.05 | 0.002187 | ± 2.5 | PASS |
| | | VN | 0 | 3.85 | 0.002079 | ± 2.5 | PASS |
| | | VN | 10 | -0.82 | -0.000443 | ± 2.5 | PASS |
| | | VN | 20 | 2.86 | 0.001545 | ± 2.5 | PASS |
| | | VN | 30 | 2.86 | 0.001545 | ± 2.5 | PASS |
| | | VN | 40 | 2.69 | 0.001453 | ± 2.5 | PASS |
| | | VN | 50 | -1.67 | -0.000902 | ± 2.5 | PASS |
| | MCH | VN | -30 | 2.85 | 0.001516 | ± 2.5 | PASS |
| | | VN | -20 | 1.72 | 0.000915 | ± 2.5 | PASS |
| | | VN | -10 | 0.38 | 0.000202 | ± 2.5 | PASS |
| | | VN | 0 | 2.24 | 0.001191 | ± 2.5 | PASS |
| | | VN | 10 | -0.46 | -0.000245 | ± 2.5 | PASS |
| | | VN | 20 | 1.46 | 0.000777 | ± 2.5 | PASS |
| | | VN | 30 | 4.19 | 0.002229 | ± 2.5 | PASS |
| | | VN | 40 | 3.56 | 0.001894 | ± 2.5 | PASS |
| | | VN | 50 | 4.57 | 0.002431 | ± 2.5 | PASS |
| | HCH | VN | -30 | 1.8 | 0.000943 | ± 2.5 | PASS |
| | | VN | -20 | -0.95 | -0.000498 | ± 2.5 | PASS |
| | | VN | -10 | 4.85 | 0.002541 | ± 2.5 | PASS |
| | | VN | 0 | 2.65 | 0.001389 | ± 2.5 | PASS |
| | | VN | 10 | 1.6 | 0.000838 | ± 2.5 | PASS |
| | | VN | 20 | -1.4 | -0.000734 | ± 2.5 | PASS |
| | | VN | 30 | 1.24 | 0.00065 | ± 2.5 | PASS |
| | | VN | 40 | 3.33 | 0.001745 | ± 2.5 | PASS |
| | | VN | 50 | 2.96 | 0.001551 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 4.06 | 0.002193 | ± 2.5 | PASS |
| | | VN | -20 | 1.85 | 0.000999 | ± 2.5 | PASS |
| | | VN | -10 | 2.98 | 0.00161 | ± 2.5 | PASS |
| | | VN | 0 | 4.4 | 0.002376 | ± 2.5 | PASS |
| | | VN | 10 | 3.97 | 0.002144 | ± 2.5 | PASS |
| | | VN | 20 | 0.05 | 0.000027 | ± 2.5 | PASS |
| | | VN | 30 | 2.07 | 0.001118 | ± 2.5 | PASS |
| | | VN | 40 | 4.83 | 0.002609 | ± 2.5 | PASS |
| | | VN | 50 | 1.86 | 0.001005 | ± 2.5 | PASS |
| | MCH | VN | -30 | 3.97 | 0.002112 | ± 2.5 | PASS |
| | | VN | -20 | 0.15 | 0.00008 | ± 2.5 | PASS |
| | | VN | -10 | 0.39 | 0.000207 | ± 2.5 | PASS |
| | | VN | 0 | 3.71 | 0.001973 | ± 2.5 | PASS |
| | | VN | 10 | 2.86 | 0.001521 | ± 2.5 | PASS |
| | | VN | 20 | 0.25 | 0.000133 | ± 2.5 | PASS |
| | | VN | 30 | 1.75 | 0.000931 | ± 2.5 | PASS |
| | | VN | 40 | -1.65 | -0.000878 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 50 | -0.59 | -0.000314 | ± 2.5 | PASS |
| | HCH | VN | -30 | -0.96 | -0.000503 | ± 2.5 | PASS |
| | | VN | -20 | 2.41 | 0.001263 | ± 2.5 | PASS |
| | | VN | -10 | -1.60 | -0.000838 | ± 2.5 | PASS |
| | | VN | 0 | -1.51 | -0.000791 | ± 2.5 | PASS |
| | | VN | 10 | 0.09 | 0.000047 | ± 2.5 | PASS |
| | | VN | 20 | -0.93 | -0.000487 | ± 2.5 | PASS |
| | | VN | 30 | 1.98 | 0.001037 | ± 2.5 | PASS |
| | | VN | 40 | -1.58 | -0.000828 | ± 2.5 | PASS |
| | | VN | 50 | 3.50 | 0.001834 | ± 2.5 | PASS |

**Channel Bandwidth: 5 MHz**

| Channel Bandwidth: 5.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 4.15 | 0.005021 | ± 2.5 | PASS |
| | | VN | TN | -0.94 | -0.001137 | ± 2.5 | PASS |
| | | VH | TN | 0.14 | 0.000169 | ± 2.5 | PASS |
| | MCH | VL | TN | -1.83 | -0.002188 | ± 2.5 | PASS |
| | | VN | TN | 2.83 | 0.003383 | ± 2.5 | PASS |
| | | VH | TN | -0.92 | -0.001100 | ± 2.5 | PASS |
| | HCH | VL | TN | -1.74 | -0.002056 | ± 2.5 | PASS |
| | | VN | TN | 2.43 | 0.002871 | ± 2.5 | PASS |
| | | VH | TN | 4.01 | 0.004737 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | -0.18 | -0.000218 | ± 2.5 | PASS |
| | | VN | TN | 2.17 | 0.002626 | ± 2.5 | PASS |
| | | VH | TN | 3.62 | 0.004380 | ± 2.5 | PASS |
| | MCH | VL | TN | 4.85 | 0.005798 | ± 2.5 | PASS |
| | | VN | TN | 2.58 | 0.003084 | ± 2.5 | PASS |
| | | VH | TN | 1.97 | 0.002355 | ± 2.5 | PASS |
| | HCH | VL | TN | -1.95 | -0.002304 | ± 2.5 | PASS |
| | | VN | TN | 1.87 | 0.002209 | ± 2.5 | PASS |
| | | VH | TN | -0.14 | -0.000165 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 0.5 | 0.000605 | ± 2.5 | PASS |
| | | VN | -20 | -1.84 | -0.002226 | ± 2.5 | PASS |
| | | VN | -10 | 4.28 | 0.005178 | ± 2.5 | PASS |
| | | VN | 0 | 3.94 | 0.004767 | ± 2.5 | PASS |
| | | VN | 10 | -1.77 | -0.002142 | ± 2.5 | PASS |
| | | VN | 20 | 1.46 | 0.001766 | ± 2.5 | PASS |
| | | VN | 30 | 0.55 | 0.000665 | ± 2.5 | PASS |
| | | VN | 40 | -1.26 | -0.001525 | ± 2.5 | PASS |
| | | VN | 50 | 0.69 | 0.000835 | ± 2.5 | PASS |
| | MCH | VN | -30 | 0.82 | 0.000980 | ± 2.5 | PASS |
| | | VN | -20 | 0.06 | 0.000072 | ± 2.5 | PASS |
| | | VN | -10 | 0.27 | 0.000323 | ± 2.5 | PASS |
| | | VN | 0 | 0.65 | 0.000777 | ± 2.5 | PASS |
| | | VN | 10 | 1.86 | 0.002224 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 20 | 2.51 | 0.003001 | ± 2.5 | PASS |
| | | VN | 30 | 1.23 | 0.001470 | ± 2.5 | PASS |
| | | VN | 40 | 3.33 | 0.003981 | ± 2.5 | PASS |
| | | VN | 50 | 4.71 | 0.005631 | ± 2.5 | PASS |
| | HCH | VN | -30 | 1.21 | 0.001429 | ± 2.5 | PASS |
| | | VN | -20 | -1.14 | -0.001347 | ± 2.5 | PASS |
| | | VN | -10 | 2.14 | 0.002528 | ± 2.5 | PASS |
| | | VN | 0 | 0.52 | 0.000614 | ± 2.5 | PASS |
| | | VN | 10 | 3.7 | 0.004371 | ± 2.5 | PASS |
| | | VN | 20 | 1.41 | 0.001666 | ± 2.5 | PASS |
| | | VN | 30 | 1.57 | 0.001855 | ± 2.5 | PASS |
| | | VN | 40 | 0.98 | 0.001158 | ± 2.5 | PASS |
| | | VN | 50 | 2 | 0.002363 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -0.95 | -0.001136 | ± 2.5 | PASS |
| | | VN | -20 | 1.75 | 0.002092 | ± 2.5 | PASS |
| | | VN | -10 | 3.64 | 0.004351 | ± 2.5 | PASS |
| | | VN | 0 | 3.63 | 0.004340 | ± 2.5 | PASS |
| | | VN | 10 | 2.92 | 0.003491 | ± 2.5 | PASS |
| | | VN | 20 | -1.73 | -0.002068 | ± 2.5 | PASS |
| | | VN | 30 | 0.3 | 0.000359 | ± 2.5 | PASS |
| | | VN | 40 | 0.59 | 0.000705 | ± 2.5 | PASS |
| | | VN | 50 | 3.91 | 0.004674 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.18 | 0.001394 | ± 2.5 | PASS |
| | | VN | -20 | -0.16 | -0.000189 | ± 2.5 | PASS |
| | | VN | -10 | 1.85 | 0.002185 | ± 2.5 | PASS |
| | | VN | 0 | 2.52 | 0.002977 | ± 2.5 | PASS |
| | | VN | 10 | 3.7 | 0.004371 | ± 2.5 | PASS |
| | | VN | 20 | 4.91 | 0.005800 | ± 2.5 | PASS |
| | | VN | 30 | 2.56 | 0.003024 | ± 2.5 | PASS |
| | | VN | 40 | 1.79 | 0.002115 | ± 2.5 | PASS |
| | | VN | 50 | -0.68 | -0.000803 | ± 2.5 | PASS |
| | HCH | VN | -30 | 2.4 | 0.002835 | ± 2.5 | PASS |
| | | VN | -20 | 2.18 | 0.002575 | ± 2.5 | PASS |
| | | VN | -10 | 3.96 | 0.004678 | ± 2.5 | PASS |
| | | VN | 0 | -1.7 | -0.002008 | ± 2.5 | PASS |
| | | VN | 10 | -0.88 | -0.001040 | ± 2.5 | PASS |
| | | VN | 20 | -1.91 | -0.002256 | ± 2.5 | PASS |
| | | VN | 30 | -0.26 | -0.000307 | ± 2.5 | PASS |
| | | VN | 40 | -1.65 | -0.001949 | ± 2.5 | PASS |
| | | VN | 50 | -0.74 | -0.000874 | ± 2.5 | PASS |

**Channel Bandwidth: 10 MHz**

| Channel Bandwidth: 10.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 3.09 | 0.003727 | ± 2.5 | PASS |
| | | VN | TN | 0.26 | 0.000314 | ± 2.5 | PASS |
| | | VH | TN | 1.87 | 0.002256 | ± 2.5 | PASS |
| | | VL | TN | 3.44 | 0.004112 | ± 2.5 | PASS |
| | | VN | TN | -0.72 | -0.000861 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | MCH | VH | TN | 2.16 | 0.002582 | ± 2.5 | PASS |
| | HCH | VL | TN | -1.59 | -0.001884 | ± 2.5 | PASS |
| | | VN | TN | 0.09 | 0.000107 | ± 2.5 | PASS |
| | | VH | TN | 1.92 | 0.002275 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | -0.36 | -0.000434 | ± 2.5 | PASS |
| | | VN | TN | 2.81 | 0.003390 | ± 2.5 | PASS |
| | | VH | TN | -1.96 | -0.002364 | ± 2.5 | PASS |
| | MCH | VL | TN | 0.54 | 0.000646 | ± 2.5 | PASS |
| | | VN | TN | 4.58 | 0.005475 | ± 2.5 | PASS |
| | | VH | TN | -0.38 | -0.000454 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.65 | -0.000770 | ± 2.5 | PASS |
| | | VN | TN | 0.06 | 0.000071 | ± 2.5 | PASS |
| | | VH | TN | 2.32 | 0.002749 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 1.03 | 0.001242 | ± 2.5 | PASS |
| | | VN | -20 | 0.15 | 0.000181 | ± 2.5 | PASS |
| | | VN | -10 | -0.18 | -0.000217 | ± 2.5 | PASS |
| | | VN | 0 | -1.16 | -0.001399 | ± 2.5 | PASS |
| | | VN | 10 | 0.93 | 0.001122 | ± 2.5 | PASS |
| | | VN | 20 | 2.43 | 0.002931 | ± 2.5 | PASS |
| | | VN | 30 | 3.11 | 0.003752 | ± 2.5 | PASS |
| | | VN | 40 | 3.24 | 0.003908 | ± 2.5 | PASS |
| | | VN | 50 | -1 | -0.001206 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.42 | 0.001698 | ± 2.5 | PASS |
| | | VN | -20 | 2.43 | 0.002905 | ± 2.5 | PASS |
| | | VN | -10 | 4.66 | 0.005571 | ± 2.5 | PASS |
| | | VN | 0 | 3.24 | 0.003873 | ± 2.5 | PASS |
| | | VN | 10 | 3.38 | 0.004041 | ± 2.5 | PASS |
| | | VN | 20 | -1.85 | -0.002212 | ± 2.5 | PASS |
| | | VN | 30 | 0.42 | 0.000502 | ± 2.5 | PASS |
| | | VN | 40 | 1.03 | 0.001231 | ± 2.5 | PASS |
| | | VN | 50 | 0.56 | 0.000669 | ± 2.5 | PASS |
| | HCH | VN | -30 | -0.49 | -0.000581 | ± 2.5 | PASS |
| | | VN | -20 | 4.79 | 0.005675 | ± 2.5 | PASS |
| | | VN | -10 | 3.78 | 0.004479 | ± 2.5 | PASS |
| | | VN | 0 | 3.02 | 0.003578 | ± 2.5 | PASS |
| | | VN | 10 | 1.11 | 0.001315 | ± 2.5 | PASS |
| | | VN | 20 | 0.52 | 0.000616 | ± 2.5 | PASS |
| | | VN | 30 | 2.84 | 0.003365 | ± 2.5 | PASS |
| | | VN | 40 | 2.74 | 0.003246 | ± 2.5 | PASS |
| | | VN | 50 | 1.27 | 0.001505 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -1.76 | -0.002104 | ± 2.5 | PASS |
| | | VN | -20 | -1.92 | -0.002295 | ± 2.5 | PASS |
| | | VN | -10 | 1.3 | 0.001554 | ± 2.5 | PASS |
| | | VN | 0 | 4.36 | 0.005212 | ± 2.5 | PASS |
| | | VN | 10 | 2.16 | 0.002582 | ± 2.5 | PASS |
| | | VN | 20 | 0.82 | 0.000980 | ± 2.5 | PASS |
| | | VN | 30 | 3.83 | 0.004579 | ± 2.5 | PASS |
| | | VN | 40 | 1.44 | 0.001721 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 50 | -1.84 | -0.002200 | ± 2.5 | PASS |
| | MCH | VN | -30 | 3.33 | 0.003945 | ± 2.5 | PASS |
| | | VN | -20 | 2.23 | 0.002642 | ± 2.5 | PASS |
| | | VN | -10 | 0.82 | 0.000972 | ± 2.5 | PASS |
| | | VN | 0 | 3.22 | 0.003815 | ± 2.5 | PASS |
| | | VN | 10 | -1.76 | -0.002085 | ± 2.5 | PASS |
| | | VN | 20 | 4.1 | 0.004858 | ± 2.5 | PASS |
| | | VN | 30 | 0.83 | 0.000983 | ± 2.5 | PASS |
| | | VN | 40 | -0.03 | -0.000036 | ± 2.5 | PASS |
| | | VN | 50 | 0.58 | 0.000687 | ± 2.5 | PASS |
| | HCH | VN | -30 | 4.13 | 0.004893 | ± 2.5 | PASS |
| | | VN | -20 | 3.09 | 0.003661 | ± 2.5 | PASS |
| | | VN | -10 | -1.7 | -0.002014 | ± 2.5 | PASS |
| | | VN | 0 | 0.65 | 0.000770 | ± 2.5 | PASS |
| | | VN | 10 | 4.02 | 0.004763 | ± 2.5 | PASS |
| | | VN | 20 | -1.96 | -0.002322 | ± 2.5 | PASS |
| | | VN | 30 | -1.76 | -0.002085 | ± 2.5 | PASS |
| | | VN | 40 | -1.71 | -0.002026 | ± 2.5 | PASS |
| | | VN | 50 | 2.85 | 0.003377 | ± 2.5 | PASS |

**Channel Bandwidth: 15 MHz**

| Channel Bandwidth: 15.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 2.43 | 0.001312 | ± 2.5 | PASS |
| | | VN | TN | 0.54 | 0.000291 | ± 2.5 | PASS |
| | | VH | TN | 3.56 | 0.001922 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.76 | 0.002000 | ± 2.5 | PASS |
| | | VN | TN | -0.84 | -0.000447 | ± 2.5 | PASS |
| | | VH | TN | 4.64 | 0.002468 | ± 2.5 | PASS |
| | HCH | VL | TN | 1.03 | 0.000540 | ± 2.5 | PASS |
| | | VN | TN | 0.59 | 0.000309 | ± 2.5 | PASS |
| | | VH | TN | 4.54 | 0.002380 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 3.47 | 0.001873 | ± 2.5 | PASS |
| | | VN | TN | 0.03 | 0.000016 | ± 2.5 | PASS |
| | | VH | TN | 2.25 | 0.001215 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.07 | 0.001633 | ± 2.5 | PASS |
| | | VN | TN | 2.64 | 0.001404 | ± 2.5 | PASS |
| | | VH | TN | -0.25 | -0.000133 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.07 | -0.000037 | ± 2.5 | PASS |
| | | VN | TN | 2.5 | 0.001311 | ± 2.5 | PASS |
| | | VH | TN | 3.91 | 0.002050 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 0.3 | 0.000162 | ± 2.5 | PASS |
| | | VN | -20 | -0.64 | -0.000345 | ± 2.5 | PASS |
| | | VN | -10 | -1.84 | -0.000993 | ± 2.5 | PASS |
| | | VN | 0 | 2.48 | 0.001339 | ± 2.5 | PASS |
| | | VN | 10 | 0.75 | 0.000405 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 20 | 2.69 | 0.001452 | ± 2.5 | PASS |
| | | VN | 30 | 3.61 | 0.001949 | ± 2.5 | PASS |
| | | VN | 40 | 3.36 | 0.001814 | ± 2.5 | PASS |
| | | VN | 50 | 4.31 | 0.002327 | ± 2.5 | PASS |
| | MCH | VN | -30 | 0.35 | 0.000186 | ± 2.5 | PASS |
| | | VN | -20 | 0.01 | 0.000005 | ± 2.5 | PASS |
| | | VN | -10 | 0.52 | 0.000277 | ± 2.5 | PASS |
| | | VN | 0 | 0.31 | 0.000165 | ± 2.5 | PASS |
| | | VN | 10 | 1.51 | 0.000803 | ± 2.5 | PASS |
| | | VN | 20 | 4.59 | 0.002441 | ± 2.5 | PASS |
| | | VN | 30 | 4.96 | 0.002638 | ± 2.5 | PASS |
| | | VN | 40 | -0.45 | -0.000239 | ± 2.5 | PASS |
| | | VN | 50 | 0.72 | 0.000383 | ± 2.5 | PASS |
| | HCH | VN | -30 | -1.79 | -0.000938 | ± 2.5 | PASS |
| | | VN | -20 | 2.45 | 0.001284 | ± 2.5 | PASS |
| | | VN | -10 | 1.2 | 0.000629 | ± 2.5 | PASS |
| | | VN | 0 | 2.93 | 0.001536 | ± 2.5 | PASS |
| | | VN | 10 | 1.53 | 0.000802 | ± 2.5 | PASS |
| | | VN | 20 | 0.93 | 0.000488 | ± 2.5 | PASS |
| | | VN | 30 | 0.98 | 0.000514 | ± 2.5 | PASS |
| | | VN | 40 | 1.37 | 0.000718 | ± 2.5 | PASS |
| | | VN | 50 | 2.89 | 0.001515 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 1.27 | 0.000686 | ± 2.5 | PASS |
| | | VN | -20 | -1.4 | -0.000756 | ± 2.5 | PASS |
| | | VN | -10 | 3.81 | 0.002057 | ± 2.5 | PASS |
| | | VN | 0 | 0.27 | 0.000146 | ± 2.5 | PASS |
| | | VN | 10 | 4.91 | 0.00265 | ± 2.5 | PASS |
| | | VN | 20 | 0.83 | 0.000448 | ± 2.5 | PASS |
| | | VN | 30 | 1.52 | 0.000821 | ± 2.5 | PASS |
| | | VN | 40 | 3.35 | 0.001808 | ± 2.5 | PASS |
| | | VN | 50 | 0.55 | 0.000297 | ± 2.5 | PASS |
| | MCH | VN | -30 | 2.24 | 0.001191 | ± 2.5 | PASS |
| | | VN | -20 | 3.27 | 0.001739 | ± 2.5 | PASS |
| | | VN | -10 | 0.35 | 0.000186 | ± 2.5 | PASS |
| | | VN | 0 | 3.82 | 0.002032 | ± 2.5 | PASS |
| | | VN | 10 | -1.66 | -0.000883 | ± 2.5 | PASS |
| | | VN | 20 | -0.52 | -0.000277 | ± 2.5 | PASS |
| | | VN | 30 | 1.84 | 0.000979 | ± 2.5 | PASS |
| | | VN | 40 | -0.19 | -0.000101 | ± 2.5 | PASS |
| | | VN | 50 | 4.35 | 0.002314 | ± 2.5 | PASS |
| | HCH | VN | -30 | -0.25 | -0.000131 | ± 2.5 | PASS |
| | | VN | -20 | 1.77 | 0.000928 | ± 2.5 | PASS |
| | | VN | -10 | -1.4 | -0.000734 | ± 2.5 | PASS |
| | | VN | 0 | -0.06 | -0.000031 | ± 2.5 | PASS |
| | | VN | 10 | -1.24 | -0.00065 | ± 2.5 | PASS |
| | | VN | 20 | 3.6 | 0.001887 | ± 2.5 | PASS |
| | | VN | 30 | 2.93 | 0.001536 | ± 2.5 | PASS |
| | | VN | 40 | 4.3 | 0.002254 | ± 2.5 | PASS |
| | | VN | 50 | -0.25 | -0.000131 | ± 2.5 | PASS |

**Channel Bandwidth: 20 MHz**

| Channel Bandwidth: 20.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 0.80 | 0.000431 | ± 2.5 | PASS |
| | | VN | TN | 4.49 | 0.00242 | ± 2.5 | PASS |
| | | VH | TN | -1.90 | -0.001024 | ± 2.5 | PASS |
| | MCH | VL | TN | 4.56 | 0.002426 | ± 2.5 | PASS |
| | | VN | TN | 0.10 | 0.000053 | ± 2.5 | PASS |
| | | VH | TN | 3.33 | 0.001771 | ± 2.5 | PASS |
| | HCH | VL | TN | 1.57 | 0.000824 | ± 2.5 | PASS |
| | | VN | TN | 3.87 | 0.002031 | ± 2.5 | PASS |
| | | VH | TN | -1.74 | -0.000913 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 0.94 | 0.000507 | ± 2.5 | PASS |
| | | VN | TN | 2.57 | 0.001385 | ± 2.5 | PASS |
| | | VH | TN | 1.32 | 0.000712 | ± 2.5 | PASS |
| | MCH | VL | TN | -1.22 | -0.000649 | ± 2.5 | PASS |
| | | VN | TN | 0.25 | 0.000133 | ± 2.5 | PASS |
| | | VH | TN | -0.91 | -0.000484 | ± 2.5 | PASS |
| | HCH | VL | TN | 0.42 | 0.00022 | ± 2.5 | PASS |
| | | VN | TN | 2.93 | 0.001538 | ± 2.5 | PASS |
| | | VH | TN | 2.33 | 0.001223 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 3.55 | 0.001914 | ± 2.5 | PASS |
| | | VN | -20 | 0.60 | 0.000323 | ± 2.5 | PASS |
| | | VN | -10 | -0.05 | -0.000027 | ± 2.5 | PASS |
| | | VN | 0 | 3.71 | 0.002000 | ± 2.5 | PASS |
| | | VN | 10 | -0.65 | -0.000350 | ± 2.5 | PASS |
| | | VN | 20 | 4.02 | 0.002167 | ± 2.5 | PASS |
| | | VN | 30 | 1.03 | 0.000555 | ± 2.5 | PASS |
| | | VN | 40 | -1.61 | -0.000868 | ± 2.5 | PASS |
| | | VN | 50 | 0.32 | 0.000173 | ± 2.5 | PASS |
| | MCH | VN | -30 | -0.92 | -0.000489 | ± 2.5 | PASS |
| | | VN | -20 | 1.63 | 0.000867 | ± 2.5 | PASS |
| | | VN | -10 | 3.54 | 0.001883 | ± 2.5 | PASS |
| | | VN | 0 | -0.80 | -0.000426 | ± 2.5 | PASS |
| | | VN | 10 | 1.43 | 0.000761 | ± 2.5 | PASS |
| | | VN | 20 | 0.55 | 0.000293 | ± 2.5 | PASS |
| | | VN | 30 | -0.24 | -0.000128 | ± 2.5 | PASS |
| | | VN | 40 | 1.81 | 0.000963 | ± 2.5 | PASS |
| | | VN | 50 | 3.17 | 0.001686 | ± 2.5 | PASS |
| | HCH | VN | -30 | -0.12 | -0.000063 | ± 2.5 | PASS |
| | | VN | -20 | -1.67 | -0.000877 | ± 2.5 | PASS |
| | | VN | -10 | -1.59 | -0.000835 | ± 2.5 | PASS |
| | | VN | 0 | 1.35 | 0.000709 | ± 2.5 | PASS |
| | | VN | 10 | 4.17 | 0.002189 | ± 2.5 | PASS |
| | | VN | 20 | 1.25 | 0.000656 | ± 2.5 | PASS |
| | | VN | 30 | 0.14 | 0.000073 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 40 | -1.73 | -0.000908 | ± 2.5 | PASS |
| | | VN | 50 | 0.73 | 0.000383 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 1.43 | 0.000771 | ± 2.5 | PASS |
| | | VN | -20 | 4.59 | 0.002474 | ± 2.5 | PASS |
| | | VN | -10 | 4.3 | 0.002318 | ± 2.5 | PASS |
| | | VN | 0 | -1.90 | -0.001024 | ± 2.5 | PASS |
| | | VN | 10 | 3.27 | 0.001763 | ± 2.5 | PASS |
| | | VN | 20 | 1.05 | 0.000566 | ± 2.5 | PASS |
| | | VN | 30 | 1.61 | 0.000868 | ± 2.5 | PASS |
| | | VN | 40 | 2.19 | 0.001181 | ± 2.5 | PASS |
| | | VN | 50 | -1.34 | -0.000722 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.36 | 0.000723 | ± 2.5 | PASS |
| | | VN | -20 | 2.27 | 0.001207 | ± 2.5 | PASS |
| | | VN | -10 | 3.81 | 0.002027 | ± 2.5 | PASS |
| | | VN | 0 | 3.73 | 0.001984 | ± 2.5 | PASS |
| | | VN | 10 | -1.11 | -0.00059 | ± 2.5 | PASS |
| | | VN | 20 | 0.07 | 0.000037 | ± 2.5 | PASS |
| | | VN | 30 | 4.14 | 0.002202 | ± 2.5 | PASS |
| | | VN | 40 | -0.34 | -0.000181 | ± 2.5 | PASS |
| | | VN | 50 | -2.00 | -0.001064 | ± 2.5 | PASS |
| | HCH | VN | -30 | 0.25 | 0.000131 | ± 2.5 | PASS |
| | | VN | -20 | -0.98 | -0.000514 | ± 2.5 | PASS |
| | | VN | -10 | -0.37 | -0.000194 | ± 2.5 | PASS |
| | | VN | 0 | -0.03 | -0.000016 | ± 2.5 | PASS |
| | | VN | 10 | 1.64 | 0.000861 | ± 2.5 | PASS |
| | | VN | 20 | -0.59 | -0.00031 | ± 2.5 | PASS |
| | | VN | 30 | 0.57 | 0.000299 | ± 2.5 | PASS |
| | | VN | 40 | 4.72 | 0.002478 | ± 2.5 | PASS |
| | | VN | 50 | 4.34 | 0.002278 | ± 2.5 | PASS |

**Band 4**
**Channel Bandwidth: 1.4 MHz**

| Channel Bandwidth: 1.4MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | -0.79 | -0.000958 | ± 2.5 | PASS |
| | | VN | TN | 4.56 | 0.005529 | ± 2.5 | PASS |
| | | VH | TN | -0.45 | -0.000546 | ± 2.5 | PASS |
| | MCH | VL | TN | 0.93 | 0.001112 | ± 2.5 | PASS |
| | | VN | TN | 4.87 | 0.005822 | ± 2.5 | PASS |
| | | VH | TN | 0.3 | 0.000359 | ± 2.5 | PASS |
| | HCH | VL | TN | 2.07 | 0.002440 | ± 2.5 | PASS |
| | | VN | TN | 0.73 | 0.000861 | ± 2.5 | PASS |
| | | VH | TN | 2.26 | 0.002664 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 0.42 | 0.000509 | ± 2.5 | PASS |
| | | VN | TN | -0.25 | -0.000303 | ± 2.5 | PASS |
| | | VH | TN | 3.46 | 0.004195 | ± 2.5 | PASS |
| | MCH | VL | TN | 1.43 | 0.001710 | ± 2.5 | PASS |
| | | VN | TN | -1.33 | -0.001590 | ± 2.5 | PASS |
| | | VH | TN | -0.99 | -0.001184 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | HCH | VL | TN | 3.47 | 0.004091 | ± 2.5 | PASS |
| | | VN | TN | 2.37 | 0.002794 | ± 2.5 | PASS |
| | | VH | TN | 4.3 | 0.005069 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 3.15 | 0.003820 | ± 2.5 | PASS |
| | | VN | -20 | 0.31 | 0.000376 | ± 2.5 | PASS |
| | | VN | -10 | 2.23 | 0.002704 | ± 2.5 | PASS |
| | | VN | 0 | 1.53 | 0.001855 | ± 2.5 | PASS |
| | | VN | 10 | 2.98 | 0.003613 | ± 2.5 | PASS |
| | | VN | 20 | 4.44 | 0.005384 | ± 2.5 | PASS |
| | | VN | 30 | 1.63 | 0.001976 | ± 2.5 | PASS |
| | | VN | 40 | 4.27 | 0.005178 | ± 2.5 | PASS |
| | | VN | 50 | 2.51 | 0.003044 | ± 2.5 | PASS |
| | MCH | VN | -30 | -1.1 | -0.001315 | ± 2.5 | PASS |
| | | VN | -20 | 3.82 | 0.004567 | ± 2.5 | PASS |
| | | VN | -10 | -0.8 | -0.000956 | ± 2.5 | PASS |
| | | VN | 0 | 4.11 | 0.004913 | ± 2.5 | PASS |
| | | VN | 10 | 4.14 | 0.004949 | ± 2.5 | PASS |
| | | VN | 20 | 4.13 | 0.004937 | ± 2.5 | PASS |
| | | VN | 30 | -0.81 | -0.000968 | ± 2.5 | PASS |
| | | VN | 40 | -1.19 | -0.001423 | ± 2.5 | PASS |
| | | VN | 50 | 4.55 | 0.005439 | ± 2.5 | PASS |
| | HCH | VN | -30 | 2.79 | 0.003289 | ± 2.5 | PASS |
| | | VN | -20 | -0.81 | -0.000955 | ± 2.5 | PASS |
| | | VN | -10 | -1.34 | -0.001580 | ± 2.5 | PASS |
| | | VN | 0 | -1.31 | -0.001544 | ± 2.5 | PASS |
| | | VN | 10 | 4.83 | 0.005694 | ± 2.5 | PASS |
| | | VN | 20 | 0.36 | 0.000424 | ± 2.5 | PASS |
| | | VN | 30 | 4.24 | 0.004998 | ± 2.5 | PASS |
| | | VN | 40 | 4.8 | 0.005658 | ± 2.5 | PASS |
| | | VN | 50 | 4.1 | 0.004833 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -0.07 | -0.000085 | ± 2.5 | PASS |
| | | VN | -20 | 0.5 | 0.000606 | ± 2.5 | PASS |
| | | VN | -10 | -0.66 | -0.000800 | ± 2.5 | PASS |
| | | VN | 0 | 2.99 | 0.003626 | ± 2.5 | PASS |
| | | VN | 10 | 3.84 | 0.004656 | ± 2.5 | PASS |
| | | VN | 20 | 4.82 | 0.005845 | ± 2.5 | PASS |
| | | VN | 30 | -1.81 | -0.002195 | ± 2.5 | PASS |
| | | VN | 40 | 4.34 | 0.005263 | ± 2.5 | PASS |
| | | VN | 50 | 0.83 | 0.001006 | ± 2.5 | PASS |
| | MCH | VN | -30 | 0.31 | 0.000365 | ± 2.5 | PASS |
| | | VN | -20 | 3.53 | 0.004161 | ± 2.5 | PASS |
| | | VN | -10 | 4.93 | 0.005812 | ± 2.5 | PASS |
| | | VN | 0 | 0.92 | 0.001085 | ± 2.5 | PASS |
| | | VN | 10 | 4 | 0.004715 | ± 2.5 | PASS |
| | | VN | 20 | -0.65 | -0.000766 | ± 2.5 | PASS |
| | | VN | 30 | 2.22 | 0.002617 | ± 2.5 | PASS |
| | | VN | 40 | 0.91 | 0.001073 | ± 2.5 | PASS |
| | | VN | 50 | 2.21 | 0.002605 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | HCH | VN | -30 | 3.06 | 0.003607 | ± 2.5 | PASS |
| | | VN | -20 | 3.29 | 0.003878 | ± 2.5 | PASS |
| | | VN | -10 | -0.44 | -0.000519 | ± 2.5 | PASS |
| | | VN | 0 | 1.99 | 0.002346 | ± 2.5 | PASS |
| | | VN | 10 | 2.57 | 0.003030 | ± 2.5 | PASS |
| | | VN | 20 | 0.7 | 0.000825 | ± 2.5 | PASS |
| | | VN | 30 | 0.7 | 0.000825 | ± 2.5 | PASS |
| | | VN | 40 | -1.63 | -0.001921 | ± 2.5 | PASS |
| | | VN | 50 | 4.39 | 0.005175 | ± 2.5 | PASS |

**Channel Bandwidth: 3 MHz**

| Channel Bandwidth: 3.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 0.44 | 0.000533 | ± 2.5 | PASS |
| | | VN | TN | 4.49 | 0.005439 | ± 2.5 | PASS |
| | | VH | TN | -1.39 | -0.001684 | ± 2.5 | PASS |
| | MCH | VL | TN | 2.71 | 0.003240 | ± 2.5 | PASS |
| | | VN | TN | -0.23 | -0.000275 | ± 2.5 | PASS |
| | | VH | TN | 1.77 | 0.002116 | ± 2.5 | PASS |
| | HCH | VL | TN | 4.82 | 0.005687 | ± 2.5 | PASS |
| | | VN | TN | -0.63 | -0.000743 | ± 2.5 | PASS |
| | | VH | TN | 3.96 | 0.004673 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 1.83 | 0.002217 | ± 2.5 | PASS |
| | | VN | TN | 0.37 | 0.000448 | ± 2.5 | PASS |
| | | VH | TN | -1.07 | -0.001296 | ± 2.5 | PASS |
| | MCH | VL | TN | 0.56 | 0.000669 | ± 2.5 | PASS |
| | | VN | TN | 4.68 | 0.005595 | ± 2.5 | PASS |
| | | VH | TN | -1.43 | -0.001710 | ± 2.5 | PASS |
| | HCH | VL | TN | 2.99 | 0.003528 | ± 2.5 | PASS |
| | | VN | TN | 1.57 | 0.001853 | ± 2.5 | PASS |
| | | VH | TN | 1.45 | 0.001711 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 3.91 | 0.004737 | ± 2.5 | PASS |
| | | VN | -20 | 2.81 | 0.003404 | ± 2.5 | PASS |
| | | VN | -10 | 4.03 | 0.004882 | ± 2.5 | PASS |
| | | VN | 0 | 3.31 | 0.004010 | ± 2.5 | PASS |
| | | VN | 10 | -0.14 | -0.000170 | ± 2.5 | PASS |
| | | VN | 20 | -0.59 | -0.000715 | ± 2.5 | PASS |
| | | VN | 30 | 4.47 | 0.005415 | ± 2.5 | PASS |
| | | VN | 40 | 1.81 | 0.002193 | ± 2.5 | PASS |
| | | VN | 50 | 3.92 | 0.004749 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.12 | 0.001339 | ± 2.5 | PASS |
| | | VN | -20 | 1.26 | 0.001506 | ± 2.5 | PASS |
| | | VN | -10 | 4.24 | 0.005069 | ± 2.5 | PASS |
| | | VN | 0 | 4.13 | 0.004937 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 10 | 1.39 | 0.001662 | ± 2.5 | PASS |
| | | VN | 20 | -1.65 | -0.001973 | ± 2.5 | PASS |
| | | VN | 30 | 0.59 | 0.000705 | ± 2.5 | PASS |
| | | VN | 40 | 4.64 | 0.005547 | ± 2.5 | PASS |
| | | VN | 50 | 3.37 | 0.004029 | ± 2.5 | PASS |
| | HCH | VN | -30 | 2.38 | 0.002808 | ± 2.5 | PASS |
| | | VN | -20 | 0.64 | 0.000755 | ± 2.5 | PASS |
| | | VN | -10 | -0.83 | -0.000979 | ± 2.5 | PASS |
| | | VN | 0 | 2.74 | 0.003233 | ± 2.5 | PASS |
| | | VN | 10 | -0.76 | -0.000897 | ± 2.5 | PASS |
| | | VN | 20 | 2.37 | 0.002796 | ± 2.5 | PASS |
| | | VN | 30 | 4.32 | 0.005097 | ± 2.5 | PASS |
| | | VN | 40 | -1.07 | -0.001263 | ± 2.5 | PASS |
| | | VN | 50 | 3.3 | 0.003894 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 4.67 | 0.005583 | ± 2.5 | PASS |
| | | VN | -20 | 1.42 | 0.001698 | ± 2.5 | PASS |
| | | VN | -10 | 2.26 | 0.002702 | ± 2.5 | PASS |
| | | VN | 0 | 0.15 | 0.000179 | ± 2.5 | PASS |
| | | VN | 10 | 2.9 | 0.003467 | ± 2.5 | PASS |
| | | VN | 20 | 2.7 | 0.003228 | ± 2.5 | PASS |
| | | VN | 30 | 0.54 | 0.000646 | ± 2.5 | PASS |
| | | VN | 40 | 1.1 | 0.001315 | ± 2.5 | PASS |
| | | VN | 50 | 4.04 | 0.004830 | ± 2.5 | PASS |
| | MCH | VN | -30 | -0.24 | -0.000283 | ± 2.5 | PASS |
| | | VN | -20 | 1.38 | 0.001628 | ± 2.5 | PASS |
| | | VN | -10 | 4.49 | 0.005298 | ± 2.5 | PASS |
| | | VN | 0 | -1.46 | -0.001723 | ± 2.5 | PASS |
| | | VN | 10 | 2.17 | 0.002560 | ± 2.5 | PASS |
| | | VN | 20 | -1.51 | -0.001782 | ± 2.5 | PASS |
| | | VN | 30 | -0.55 | -0.000649 | ± 2.5 | PASS |
| | | VN | 40 | 2.63 | 0.003103 | ± 2.5 | PASS |
| | | VN | 50 | 4.44 | 0.005239 | ± 2.5 | PASS |
| | HCH | VN | -30 | 0.55 | 0.000649 | ± 2.5 | PASS |
| | | VN | -20 | -1.12 | -0.001322 | ± 2.5 | PASS |
| | | VN | -10 | 1.97 | 0.002324 | ± 2.5 | PASS |
| | | VN | 0 | -1.58 | -0.001864 | ± 2.5 | PASS |
| | | VN | 10 | 4.77 | 0.005628 | ± 2.5 | PASS |
| | | VN | 20 | 4.35 | 0.005133 | ± 2.5 | PASS |
| | | VN | 30 | 0.63 | 0.000743 | ± 2.5 | PASS |
| | | VN | 40 | 1.15 | 0.001357 | ± 2.5 | PASS |
| | | VN | 50 | -1.58 | -0.001864 | ± 2.5 | PASS |

**Channel Bandwidth: 5 MHz**

| Channel Bandwidth: 5.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 4.15 | 0.005021 | ± 2.5 | PASS |
| | | VN | TN | -0.94 | -0.001137 | ± 2.5 | PASS |
| | | VH | TN | 0.14 | 0.000169 | ± 2.5 | PASS |
| | | VL | TN | -1.83 | -0.002188 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | MCH | VN | TN | 2.83 | 0.003383 | ± 2.5 | PASS |
| | | VH | TN | -0.92 | -0.001100 | ± 2.5 | PASS |
| | HCH | VL | TN | -1.74 | -0.002056 | ± 2.5 | PASS |
| | | VN | TN | 2.43 | 0.002871 | ± 2.5 | PASS |
| | | VH | TN | 4.01 | 0.004737 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | -0.18 | -0.000218 | ± 2.5 | PASS |
| | | VN | TN | 2.17 | 0.002626 | ± 2.5 | PASS |
| | | VH | TN | 3.62 | 0.004380 | ± 2.5 | PASS |
| | MCH | VL | TN | 4.85 | 0.005798 | ± 2.5 | PASS |
| | | VN | TN | 2.58 | 0.003084 | ± 2.5 | PASS |
| | | VH | TN | 1.97 | 0.002355 | ± 2.5 | PASS |
| | HCH | VL | TN | -1.95 | -0.002304 | ± 2.5 | PASS |
| | | VN | TN | 1.87 | 0.002209 | ± 2.5 | PASS |
| | | VH | TN | -0.14 | -0.000165 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 0.5 | 0.000605 | ± 2.5 | PASS |
| | | VN | -20 | -1.84 | -0.002226 | ± 2.5 | PASS |
| | | VN | -10 | 4.28 | 0.005178 | ± 2.5 | PASS |
| | | VN | 0 | 3.94 | 0.004767 | ± 2.5 | PASS |
| | | VN | 10 | -1.77 | -0.002142 | ± 2.5 | PASS |
| | | VN | 20 | 1.46 | 0.001766 | ± 2.5 | PASS |
| | | VN | 30 | 0.55 | 0.000665 | ± 2.5 | PASS |
| | | VN | 40 | -1.26 | -0.001525 | ± 2.5 | PASS |
| | | VN | 50 | 0.69 | 0.000835 | ± 2.5 | PASS |
| | MCH | VN | -30 | 0.82 | 0.000980 | ± 2.5 | PASS |
| | | VN | -20 | 0.06 | 0.000072 | ± 2.5 | PASS |
| | | VN | -10 | 0.27 | 0.000323 | ± 2.5 | PASS |
| | | VN | 0 | 0.65 | 0.000777 | ± 2.5 | PASS |
| | | VN | 10 | 1.86 | 0.002224 | ± 2.5 | PASS |
| | | VN | 20 | 2.51 | 0.003001 | ± 2.5 | PASS |
| | | VN | 30 | 1.23 | 0.001470 | ± 2.5 | PASS |
| | | VN | 40 | 3.33 | 0.003981 | ± 2.5 | PASS |
| | | VN | 50 | 4.71 | 0.005631 | ± 2.5 | PASS |
| | HCH | VN | -30 | 1.21 | 0.001429 | ± 2.5 | PASS |
| | | VN | -20 | -1.14 | -0.001347 | ± 2.5 | PASS |
| | | VN | -10 | 2.14 | 0.002528 | ± 2.5 | PASS |
| | | VN | 0 | 0.52 | 0.000614 | ± 2.5 | PASS |
| | | VN | 10 | 3.7 | 0.004371 | ± 2.5 | PASS |
| | | VN | 20 | 1.41 | 0.001666 | ± 2.5 | PASS |
| | | VN | 30 | 1.57 | 0.001855 | ± 2.5 | PASS |
| | | VN | 40 | 0.98 | 0.001158 | ± 2.5 | PASS |
| | | VN | 50 | 2 | 0.002363 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -0.95 | -0.001136 | ± 2.5 | PASS |
| | | VN | -20 | 1.75 | 0.002092 | ± 2.5 | PASS |
| | | VN | -10 | 3.64 | 0.004351 | ± 2.5 | PASS |
| | | VN | 0 | 3.63 | 0.004340 | ± 2.5 | PASS |
| | | VN | 10 | 2.92 | 0.003491 | ± 2.5 | PASS |
| | | VN | 20 | -1.73 | -0.002068 | ± 2.5 | PASS |
| | | VN | 30 | 0.3 | 0.000359 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 40 | 0.59 | 0.000705 | ± 2.5 | PASS |
| | | VN | 50 | 3.91 | 0.004674 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.18 | 0.001394 | ± 2.5 | PASS |
| | | VN | -20 | -0.16 | -0.000189 | ± 2.5 | PASS |
| | | VN | -10 | 1.85 | 0.002185 | ± 2.5 | PASS |
| | | VN | 0 | 2.52 | 0.002977 | ± 2.5 | PASS |
| | | VN | 10 | 3.7 | 0.004371 | ± 2.5 | PASS |
| | | VN | 20 | 4.91 | 0.005800 | ± 2.5 | PASS |
| | | VN | 30 | 2.56 | 0.003024 | ± 2.5 | PASS |
| | | VN | 40 | 1.79 | 0.002115 | ± 2.5 | PASS |
| | | VN | 50 | -0.68 | -0.000803 | ± 2.5 | PASS |
| | HCH | VN | -30 | 2.4 | 0.002835 | ± 2.5 | PASS |
| | | VN | -20 | 2.18 | 0.002575 | ± 2.5 | PASS |
| | | VN | -10 | 3.96 | 0.004678 | ± 2.5 | PASS |
| | | VN | 0 | -1.7 | -0.002008 | ± 2.5 | PASS |
| | | VN | 10 | -0.88 | -0.001040 | ± 2.5 | PASS |
| | | VN | 20 | -1.91 | -0.002256 | ± 2.5 | PASS |
| | | VN | 30 | -0.26 | -0.000307 | ± 2.5 | PASS |
| | | VN | 40 | -1.65 | -0.001949 | ± 2.5 | PASS |
| | | VN | 50 | -0.74 | -0.000874 | ± 2.5 | PASS |

**Channel Bandwidth: 10 MHz**

| Channel Bandwidth: 10.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 3.09 | 0.003727 | ± 2.5 | PASS |
| | | VN | TN | 0.26 | 0.000314 | ± 2.5 | PASS |
| | | VH | TN | 1.87 | 0.002256 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.44 | 0.004112 | ± 2.5 | PASS |
| | | VN | TN | -0.72 | -0.000861 | ± 2.5 | PASS |
| | | VH | TN | 2.16 | 0.002582 | ± 2.5 | PASS |
| | HCH | VL | TN | -1.59 | -0.001884 | ± 2.5 | PASS |
| | | VN | TN | 0.09 | 0.000107 | ± 2.5 | PASS |
| | | VH | TN | 1.92 | 0.002275 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | -0.36 | -0.000434 | ± 2.5 | PASS |
| | | VN | TN | 2.81 | 0.003390 | ± 2.5 | PASS |
| | | VH | TN | -1.96 | -0.002364 | ± 2.5 | PASS |
| | MCH | VL | TN | 0.54 | 0.000646 | ± 2.5 | PASS |
| | | VN | TN | 4.58 | 0.005475 | ± 2.5 | PASS |
| | | VH | TN | -0.38 | -0.000454 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.65 | -0.000770 | ± 2.5 | PASS |
| | | VN | TN | 0.06 | 0.000071 | ± 2.5 | PASS |
| | | VH | TN | 2.32 | 0.002749 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 1.03 | 0.001242 | ± 2.5 | PASS |
| | | VN | -20 | 0.15 | 0.000181 | ± 2.5 | PASS |
| | | VN | -10 | -0.18 | -0.000217 | ± 2.5 | PASS |
| | | VN | 0 | -1.16 | -0.001399 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 10 | 0.93 | 0.001122 | ± 2.5 | PASS |
| | | VN | 20 | 2.43 | 0.002931 | ± 2.5 | PASS |
| | | VN | 30 | 3.11 | 0.003752 | ± 2.5 | PASS |
| | | VN | 40 | 3.24 | 0.003908 | ± 2.5 | PASS |
| | | VN | 50 | -1 | -0.001206 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.42 | 0.001698 | ± 2.5 | PASS |
| | | VN | -20 | 2.43 | 0.002905 | ± 2.5 | PASS |
| | | VN | -10 | 4.66 | 0.005571 | ± 2.5 | PASS |
| | | VN | 0 | 3.24 | 0.003873 | ± 2.5 | PASS |
| | | VN | 10 | 3.38 | 0.004041 | ± 2.5 | PASS |
| | | VN | 20 | -1.85 | -0.002212 | ± 2.5 | PASS |
| | | VN | 30 | 0.42 | 0.000502 | ± 2.5 | PASS |
| | | VN | 40 | 1.03 | 0.001231 | ± 2.5 | PASS |
| | | VN | 50 | 0.56 | 0.000669 | ± 2.5 | PASS |
| | HCH | VN | -30 | -0.49 | -0.000581 | ± 2.5 | PASS |
| | | VN | -20 | 4.79 | 0.005675 | ± 2.5 | PASS |
| | | VN | -10 | 3.78 | 0.004479 | ± 2.5 | PASS |
| | | VN | 0 | 3.02 | 0.003578 | ± 2.5 | PASS |
| | | VN | 10 | 1.11 | 0.001315 | ± 2.5 | PASS |
| | | VN | 20 | 0.52 | 0.000616 | ± 2.5 | PASS |
| | | VN | 30 | 2.84 | 0.003365 | ± 2.5 | PASS |
| | | VN | 40 | 2.74 | 0.003246 | ± 2.5 | PASS |
| | | VN | 50 | 1.27 | 0.001505 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -1.76 | -0.002104 | ± 2.5 | PASS |
| | | VN | -20 | -1.92 | -0.002295 | ± 2.5 | PASS |
| | | VN | -10 | 1.3 | 0.001554 | ± 2.5 | PASS |
| | | VN | 0 | 4.36 | 0.005212 | ± 2.5 | PASS |
| | | VN | 10 | 2.16 | 0.002582 | ± 2.5 | PASS |
| | | VN | 20 | 0.82 | 0.000980 | ± 2.5 | PASS |
| | | VN | 30 | 3.83 | 0.004579 | ± 2.5 | PASS |
| | | VN | 40 | 1.44 | 0.001721 | ± 2.5 | PASS |
| | | VN | 50 | -1.84 | -0.002200 | ± 2.5 | PASS |
| | MCH | VN | -30 | 3.33 | 0.003945 | ± 2.5 | PASS |
| | | VN | -20 | 2.23 | 0.002642 | ± 2.5 | PASS |
| | | VN | -10 | 0.82 | 0.000972 | ± 2.5 | PASS |
| | | VN | 0 | 3.22 | 0.003815 | ± 2.5 | PASS |
| | | VN | 10 | -1.76 | -0.002085 | ± 2.5 | PASS |
| | | VN | 20 | 4.1 | 0.004858 | ± 2.5 | PASS |
| | | VN | 30 | 0.83 | 0.000983 | ± 2.5 | PASS |
| | | VN | 40 | -0.03 | -0.000036 | ± 2.5 | PASS |
| | | VN | 50 | 0.58 | 0.000687 | ± 2.5 | PASS |
| | HCH | VN | -30 | 4.13 | 0.004893 | ± 2.5 | PASS |
| | | VN | -20 | 3.09 | 0.003661 | ± 2.5 | PASS |
| | | VN | -10 | -1.7 | -0.002014 | ± 2.5 | PASS |
| | | VN | 0 | 0.65 | 0.000770 | ± 2.5 | PASS |
| | | VN | 10 | 4.02 | 0.004763 | ± 2.5 | PASS |
| | | VN | 20 | -1.96 | -0.002322 | ± 2.5 | PASS |
| | | VN | 30 | -1.76 | -0.002085 | ± 2.5 | PASS |
| | | VN | 40 | -1.71 | -0.002026 | ± 2.5 | PASS |
| | | VN | 50 | 2.85 | 0.003377 | ± 2.5 | PASS |

**Channel Bandwidth: 15 MHz**

| Channel Bandwidth: 15.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | -0.61 | -0.000328 | ± 2.5 | PASS |
| | | VN | TN | 0.62 | 0.000334 | ± 2.5 | PASS |
| | | VH | TN | 0.37 | 0.000199 | ± 2.5 | PASS |
| | MCH | VL | TN | 0.34 | 0.000181 | ± 2.5 | PASS |
| | | VN | TN | 0.01 | 0.000005 | ± 2.5 | PASS |
| | | VH | TN | 1.27 | 0.000676 | ± 2.5 | PASS |
| | HCH | VL | TN | 0.00 | 0.000000 | ± 2.5 | PASS |
| | | VN | TN | 2.81 | 0.001477 | ± 2.5 | PASS |
| | | VH | TN | 4.28 | 0.002250 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | -0.54 | -0.000291 | ± 2.5 | PASS |
| | | VN | TN | 0.02 | 0.000011 | ± 2.5 | PASS |
| | | VH | TN | 0.23 | 0.000124 | ± 2.5 | PASS |
| | MCH | VL | TN | 2.21 | 0.001176 | ± 2.5 | PASS |
| | | VN | TN | 2.78 | 0.001479 | ± 2.5 | PASS |
| | | VH | TN | 0.16 | 0.000085 | ± 2.5 | PASS |
| | HCH | VL | TN | 3.39 | 0.001782 | ± 2.5 | PASS |
| | | VN | TN | -0.81 | -0.000426 | ± 2.5 | PASS |
| | | VH | TN | 0.50 | 0.000263 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 1.36 | 0.000732 | ± 2.5 | PASS |
| | | VN | -20 | 0.82 | 0.000441 | ± 2.5 | PASS |
| | | VN | -10 | 1.92 | 0.001034 | ± 2.5 | PASS |
| | | VN | 0 | -0.93 | -0.000501 | ± 2.5 | PASS |
| | | VN | 10 | -1.89 | -0.001017 | ± 2.5 | PASS |
| | | VN | 20 | -1.07 | -0.000576 | ± 2.5 | PASS |
| | | VN | 30 | 4.55 | 0.00245 | ± 2.5 | PASS |
| | | VN | 40 | -0.08 | -0.000043 | ± 2.5 | PASS |
| | | VN | 50 | -0.64 | -0.000345 | ± 2.5 | PASS |
| | MCH | VN | -30 | 4.39 | 0.002335 | ± 2.5 | PASS |
| | | VN | -20 | 4.19 | 0.002229 | ± 2.5 | PASS |
| | | VN | -10 | 1.59 | 0.000846 | ± 2.5 | PASS |
| | | VN | 0 | 2.66 | 0.001415 | ± 2.5 | PASS |
| | | VN | 10 | 1.45 | 0.000771 | ± 2.5 | PASS |
| | | VN | 20 | 3.3 | 0.001755 | ± 2.5 | PASS |
| | | VN | 30 | 0.07 | 0.000037 | ± 2.5 | PASS |
| | | VN | 40 | 2.19 | 0.001165 | ± 2.5 | PASS |
| | | VN | 50 | 0.78 | 0.000415 | ± 2.5 | PASS |
| | HCH | VN | -30 | 0.32 | 0.000168 | ± 2.5 | PASS |
| | | VN | -20 | 0.78 | 0.00041 | ± 2.5 | PASS |
| | | VN | -10 | 4.83 | 0.002539 | ± 2.5 | PASS |
| | | VN | 0 | 1.81 | 0.000951 | ± 2.5 | PASS |
| | | VN | 10 | 3.18 | 0.001671 | ± 2.5 | PASS |
| | | VN | 20 | 3.86 | 0.002029 | ± 2.5 | PASS |
| | | VN | 30 | 1.68 | 0.000883 | ± 2.5 | PASS |
| | | VN | 40 | 0.46 | 0.000242 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 50 | 3.17 | 0.001666 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -1.22 | -0.000657 | ± 2.5 | PASS |
| | | VN | -20 | 2.18 | 0.001174 | ± 2.5 | PASS |
| | | VN | -10 | 1.21 | 0.000651 | ± 2.5 | PASS |
| | | VN | 0 | 0.16 | 0.000086 | ± 2.5 | PASS |
| | | VN | 10 | -0.98 | -0.000528 | ± 2.5 | PASS |
| | | VN | 20 | -0.79 | -0.000425 | ± 2.5 | PASS |
| | | VN | 30 | 3.19 | 0.001717 | ± 2.5 | PASS |
| | | VN | 40 | -1.44 | -0.000775 | ± 2.5 | PASS |
| | | VN | 50 | 3.02 | 0.001626 | ± 2.5 | PASS |
| | MCH | VN | -30 | 4.68 | 0.002489 | ± 2.5 | PASS |
| | | VN | -20 | -0.76 | -0.000404 | ± 2.5 | PASS |
| | | VN | -10 | 1.59 | 0.000846 | ± 2.5 | PASS |
| | | VN | 0 | 1.45 | 0.000771 | ± 2.5 | PASS |
| | | VN | 10 | -0.11 | -0.000059 | ± 2.5 | PASS |
| | | VN | 20 | -1.37 | -0.000729 | ± 2.5 | PASS |
| | | VN | 30 | 4.42 | 0.002351 | ± 2.5 | PASS |
| | | VN | 40 | 1.36 | 0.000723 | ± 2.5 | PASS |
| | | VN | 50 | 1.16 | 0.000617 | ± 2.5 | PASS |
| | HCH | VN | -30 | 1.81 | 0.000951 | ± 2.5 | PASS |
| | | VN | -20 | 2.94 | 0.001545 | ± 2.5 | PASS |
| | | VN | -10 | 3.75 | 0.001971 | ± 2.5 | PASS |
| | | VN | 0 | 1.66 | 0.000873 | ± 2.5 | PASS |
| | | VN | 10 | 0.86 | 0.000452 | ± 2.5 | PASS |
| | | VN | 20 | -0.85 | -0.000447 | ± 2.5 | PASS |
| | | VN | 30 | 3.18 | 0.001671 | ± 2.5 | PASS |
| | | VN | 40 | 4.6 | 0.002418 | ± 2.5 | PASS |
| | | VN | 50 | 4.78 | 0.002512 | ± 2.5 | PASS |

**Channel Bandwidth: 20 MHz**

| Channel Bandwidth: 20.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | -0.28 | -0.000151 | ± 2.5 | PASS |
| | | VN | TN | 0.45 | 0.000242 | ± 2.5 | PASS |
| | | VH | TN | 2.07 | 0.001113 | ± 2.5 | PASS |
| | MCH | VL | TN | 2.86 | 0.001521 | ± 2.5 | PASS |
| | | VN | TN | -1.40 | -0.000745 | ± 2.5 | PASS |
| | | VH | TN | 2.77 | 0.001473 | ± 2.5 | PASS |
| | HCH | VL | TN | -1.21 | -0.000637 | ± 2.5 | PASS |
| | | VN | TN | 0.71 | 0.000374 | ± 2.5 | PASS |
| | | VH | TN | 1.71 | 0.000900 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 4.35 | 0.002339 | ± 2.5 | PASS |
| | | VN | TN | 1.91 | 0.001027 | ± 2.5 | PASS |
| | | VH | TN | 1.95 | 0.001048 | ± 2.5 | PASS |
| | MCH | VL | TN | -1.09 | -0.000580 | ± 2.5 | PASS |
| | | VN | TN | 4.55 | 0.002420 | ± 2.5 | PASS |
| | | VH | TN | 3.17 | 0.001686 | ± 2.5 | PASS |
| | HCH | VL | TN | 2.99 | 0.001574 | ± 2.5 | PASS |
| | | VN | TN | 3.23 | 0.001700 | ± 2.5 | PASS |
| | | VH | TN | 1.63 | 0.000858 | ± 2.5 | PASS |

| Temperature | | | | | | | |
|---|---|---|---|---|---|---|---|
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -0.17 | -0.000091 | ± 2.5 | PASS |
| | | VN | -20 | -0.65 | -0.000349 | ± 2.5 | PASS |
| | | VN | -10 | -1.10 | -0.000591 | ± 2.5 | PASS |
| | | VN | 0 | 4.67 | 0.002511 | ± 2.5 | PASS |
| | | VN | 10 | -0.67 | -0.000360 | ± 2.5 | PASS |
| | | VN | 20 | 2.37 | 0.001274 | ± 2.5 | PASS |
| | | VN | 30 | 4.43 | 0.002382 | ± 2.5 | PASS |
| | | VN | 40 | 4.07 | 0.002188 | ± 2.5 | PASS |
| | | VN | 50 | -1.43 | -0.000769 | ± 2.5 | PASS |
| | MCH | VN | -30 | 4.39 | 0.002335 | ± 2.5 | PASS |
| | | VN | -20 | 4.19 | 0.002229 | ± 2.5 | PASS |
| | | VN | -10 | 1.59 | 0.000846 | ± 2.5 | PASS |
| | | VN | 0 | 2.66 | 0.001415 | ± 2.5 | PASS |
| | | VN | 10 | 1.45 | 0.000771 | ± 2.5 | PASS |
| | | VN | 20 | 3.30 | 0.001755 | ± 2.5 | PASS |
| | | VN | 30 | 0.07 | 0.000037 | ± 2.5 | PASS |
| | | VN | 40 | 2.19 | 0.001165 | ± 2.5 | PASS |
| | | VN | 50 | 0.78 | 0.000415 | ± 2.5 | PASS |
| | HCH | VN | -30 | 0.32 | 0.000168 | ± 2.5 | PASS |
| | | VN | -20 | 0.78 | 0.000410 | ± 2.5 | PASS |
| | | VN | -10 | 4.83 | 0.002539 | ± 2.5 | PASS |
| | | VN | 0 | 1.81 | 0.000951 | ± 2.5 | PASS |
| | | VN | 10 | 3.18 | 0.001671 | ± 2.5 | PASS |
| | | VN | 20 | 3.86 | 0.002029 | ± 2.5 | PASS |
| | | VN | 30 | 1.68 | 0.000883 | ± 2.5 | PASS |
| | | VN | 40 | 0.46 | 0.000242 | ± 2.5 | PASS |
| | | VN | 50 | 3.17 | 0.001666 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -1.22 | -0.000657 | ± 2.5 | PASS |
| | | VN | -20 | 2.18 | 0.001174 | ± 2.5 | PASS |
| | | VN | -10 | 1.21 | 0.000651 | ± 2.5 | PASS |
| | | VN | 0 | 0.16 | 0.000086 | ± 2.5 | PASS |
| | | VN | 10 | -0.98 | -0.000528 | ± 2.5 | PASS |
| | | VN | 20 | -0.79 | -0.000425 | ± 2.5 | PASS |
| | | VN | 30 | 3.19 | 0.001717 | ± 2.5 | PASS |
| | | VN | 40 | -1.44 | -0.000775 | ± 2.5 | PASS |
| | | VN | 50 | 3.02 | 0.001626 | ± 2.5 | PASS |
| | MCH | VN | -30 | 4.68 | 0.002489 | ± 2.5 | PASS |
| | | VN | -20 | -0.76 | -0.000404 | ± 2.5 | PASS |
| | | VN | -10 | 1.59 | 0.000846 | ± 2.5 | PASS |
| | | VN | 0 | 1.45 | 0.000771 | ± 2.5 | PASS |
| | | VN | 10 | -0.11 | -0.000059 | ± 2.5 | PASS |
| | | VN | 20 | -1.37 | -0.000729 | ± 2.5 | PASS |
| | | VN | 30 | 4.42 | 0.002351 | ± 2.5 | PASS |
| | | VN | 40 | 1.36 | 0.000723 | ± 2.5 | PASS |
| | | VN | 50 | 1.16 | 0.000617 | ± 2.5 | PASS |
| | HCH | VN | -30 | 1.81 | 0.000951 | ± 2.5 | PASS |
| | | VN | -20 | 2.94 | 0.001545 | ± 2.5 | PASS |
| | | VN | -10 | 3.75 | 0.001971 | ± 2.5 | PASS |
| | | VN | 0 | 1.66 | 0.000873 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 10 | 0.86 | 0.000452 | ± 2.5 | PASS |
| | | VN | 20 | -0.85 | -0.000447 | ± 2.5 | PASS |
| | | VN | 30 | 3.18 | 0.001671 | ± 2.5 | PASS |
| | | VN | 40 | 4.6 | 0.002418 | ± 2.5 | PASS |
| | | VN | 50 | 4.78 | 0.002512 | ± 2.5 | PASS |

**Band 5**
**Channel Bandwidth: 1.4 MHz**

| Channel Bandwidth: 1.4MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | -0.79 | -0.000958 | ± 2.5 | PASS |
| | | VN | TN | 4.56 | 0.005529 | ± 2.5 | PASS |
| | | VH | TN | -0.45 | -0.000546 | ± 2.5 | PASS |
| | MCH | VL | TN | 0.93 | 0.001112 | ± 2.5 | PASS |
| | | VN | TN | 4.87 | 0.005822 | ± 2.5 | PASS |
| | | VH | TN | 0.3 | 0.000359 | ± 2.5 | PASS |
| | HCH | VL | TN | 2.07 | 0.002440 | ± 2.5 | PASS |
| | | VN | TN | 0.73 | 0.000861 | ± 2.5 | PASS |
| | | VH | TN | 2.26 | 0.002664 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 0.42 | 0.000509 | ± 2.5 | PASS |
| | | VN | TN | -0.25 | -0.000303 | ± 2.5 | PASS |
| | | VH | TN | 3.46 | 0.004195 | ± 2.5 | PASS |
| | MCH | VL | TN | 1.43 | 0.001710 | ± 2.5 | PASS |
| | | VN | TN | -1.33 | -0.001590 | ± 2.5 | PASS |
| | | VH | TN | -0.99 | -0.001184 | ± 2.5 | PASS |
| | HCH | VL | TN | 3.47 | 0.004091 | ± 2.5 | PASS |
| | | VN | TN | 2.37 | 0.002794 | ± 2.5 | PASS |
| | | VH | TN | 4.3 | 0.005069 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 3.15 | 0.003820 | ± 2.5 | PASS |
| | | VN | -20 | 0.31 | 0.000376 | ± 2.5 | PASS |
| | | VN | -10 | 2.23 | 0.002704 | ± 2.5 | PASS |
| | | VN | 0 | 1.53 | 0.001855 | ± 2.5 | PASS |
| | | VN | 10 | 2.98 | 0.003613 | ± 2.5 | PASS |
| | | VN | 20 | 4.44 | 0.005384 | ± 2.5 | PASS |
| | | VN | 30 | 1.63 | 0.001976 | ± 2.5 | PASS |
| | | VN | 40 | 4.27 | 0.005178 | ± 2.5 | PASS |
| | | VN | 50 | 2.51 | 0.003044 | ± 2.5 | PASS |
| | MCH | VN | -30 | -1.1 | -0.001315 | ± 2.5 | PASS |
| | | VN | -20 | 3.82 | 0.004567 | ± 2.5 | PASS |
| | | VN | -10 | -0.8 | -0.000956 | ± 2.5 | PASS |
| | | VN | 0 | 4.11 | 0.004913 | ± 2.5 | PASS |
| | | VN | 10 | 4.14 | 0.004949 | ± 2.5 | PASS |
| | | VN | 20 | 4.13 | 0.004937 | ± 2.5 | PASS |
| | | VN | 30 | -0.81 | -0.000968 | ± 2.5 | PASS |
| | | VN | 40 | -1.19 | -0.001423 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 50 | 4.55 | 0.005439 | ± 2.5 | PASS |
| | HCH | VN | -30 | 2.79 | 0.003289 | ± 2.5 | PASS |
| | | VN | -20 | -0.81 | -0.000955 | ± 2.5 | PASS |
| | | VN | -10 | -1.34 | -0.001580 | ± 2.5 | PASS |
| | | VN | 0 | -1.31 | -0.001544 | ± 2.5 | PASS |
| | | VN | 10 | 4.83 | 0.005694 | ± 2.5 | PASS |
| | | VN | 20 | 0.36 | 0.000424 | ± 2.5 | PASS |
| | | VN | 30 | 4.24 | 0.004998 | ± 2.5 | PASS |
| | | VN | 40 | 4.8 | 0.005658 | ± 2.5 | PASS |
| | | VN | 50 | 4.1 | 0.004833 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -0.07 | -0.000085 | ± 2.5 | PASS |
| | | VN | -20 | 0.5 | 0.000606 | ± 2.5 | PASS |
| | | VN | -10 | -0.66 | -0.000800 | ± 2.5 | PASS |
| | | VN | 0 | 2.99 | 0.003626 | ± 2.5 | PASS |
| | | VN | 10 | 3.84 | 0.004656 | ± 2.5 | PASS |
| | | VN | 20 | 4.82 | 0.005845 | ± 2.5 | PASS |
| | | VN | 30 | -1.81 | -0.002195 | ± 2.5 | PASS |
| | | VN | 40 | 4.34 | 0.005263 | ± 2.5 | PASS |
| | | VN | 50 | 0.83 | 0.001006 | ± 2.5 | PASS |
| | MCH | VN | -30 | 0.31 | 0.000365 | ± 2.5 | PASS |
| | | VN | -20 | 3.53 | 0.004161 | ± 2.5 | PASS |
| | | VN | -10 | 4.93 | 0.005812 | ± 2.5 | PASS |
| | | VN | 0 | 0.92 | 0.001085 | ± 2.5 | PASS |
| | | VN | 10 | 4 | 0.004715 | ± 2.5 | PASS |
| | | VN | 20 | -0.65 | -0.000766 | ± 2.5 | PASS |
| | | VN | 30 | 2.22 | 0.002617 | ± 2.5 | PASS |
| | | VN | 40 | 0.91 | 0.001073 | ± 2.5 | PASS |
| | | VN | 50 | 2.21 | 0.002605 | ± 2.5 | PASS |
| | HCH | VN | -30 | 3.06 | 0.003607 | ± 2.5 | PASS |
| | | VN | -20 | 3.29 | 0.003878 | ± 2.5 | PASS |
| | | VN | -10 | -0.44 | -0.000519 | ± 2.5 | PASS |
| | | VN | 0 | 1.99 | 0.002346 | ± 2.5 | PASS |
| | | VN | 10 | 2.57 | 0.003030 | ± 2.5 | PASS |
| | | VN | 20 | 0.7 | 0.000825 | ± 2.5 | PASS |
| | | VN | 30 | 0.7 | 0.000825 | ± 2.5 | PASS |
| | | VN | 40 | -1.63 | -0.001921 | ± 2.5 | PASS |
| | | VN | 50 | 4.39 | 0.005175 | ± 2.5 | PASS |

**Channel Bandwidth: 3 MHz**

| Channel Bandwidth: 3.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 0.44 | 0.000533 | ± 2.5 | PASS |
| | | VN | TN | 4.49 | 0.005439 | ± 2.5 | PASS |
| | | VH | TN | -1.39 | -0.001684 | ± 2.5 | PASS |
| | MCH | VL | TN | 2.71 | 0.003240 | ± 2.5 | PASS |
| | | VN | TN | -0.23 | -0.000275 | ± 2.5 | PASS |
| | | VH | TN | 1.77 | 0.002116 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | HCH | VL | TN | 4.82 | 0.005687 | ± 2.5 | PASS |
| | | VN | TN | -0.63 | -0.000743 | ± 2.5 | PASS |
| | | VH | TN | 3.96 | 0.004673 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 1.83 | 0.002217 | ± 2.5 | PASS |
| | | VN | TN | 0.37 | 0.000448 | ± 2.5 | PASS |
| | | VH | TN | -1.07 | -0.001296 | ± 2.5 | PASS |
| | MCH | VL | TN | 0.56 | 0.000669 | ± 2.5 | PASS |
| | | VN | TN | 4.68 | 0.005595 | ± 2.5 | PASS |
| | | VH | TN | -1.43 | -0.001710 | ± 2.5 | PASS |
| | HCH | VL | TN | 2.99 | 0.003528 | ± 2.5 | PASS |
| | | VN | TN | 1.57 | 0.001853 | ± 2.5 | PASS |
| | | VH | TN | 1.45 | 0.001711 | ± 2.5 | PASS |

Temperature

| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|---|
| QPSK | LCH | VN | -30 | 3.91 | 0.004737 | ± 2.5 | PASS |
| | | VN | -20 | 2.81 | 0.003404 | ± 2.5 | PASS |
| | | VN | -10 | 4.03 | 0.004882 | ± 2.5 | PASS |
| | | VN | 0 | 3.31 | 0.004010 | ± 2.5 | PASS |
| | | VN | 10 | -0.14 | -0.000170 | ± 2.5 | PASS |
| | | VN | 20 | -0.59 | -0.000715 | ± 2.5 | PASS |
| | | VN | 30 | 4.47 | 0.005415 | ± 2.5 | PASS |
| | | VN | 40 | 1.81 | 0.002193 | ± 2.5 | PASS |
| | | VN | 50 | 3.92 | 0.004749 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.12 | 0.001339 | ± 2.5 | PASS |
| | | VN | -20 | 1.26 | 0.001506 | ± 2.5 | PASS |
| | | VN | -10 | 4.24 | 0.005069 | ± 2.5 | PASS |
| | | VN | 0 | 4.13 | 0.004937 | ± 2.5 | PASS |
| | | VN | 10 | 1.39 | 0.001662 | ± 2.5 | PASS |
| | | VN | 20 | -1.65 | -0.001973 | ± 2.5 | PASS |
| | | VN | 30 | 0.59 | 0.000705 | ± 2.5 | PASS |
| | | VN | 40 | 4.64 | 0.005547 | ± 2.5 | PASS |
| | | VN | 50 | 3.37 | 0.004029 | ± 2.5 | PASS |
| | HCH | VN | -30 | 2.38 | 0.002808 | ± 2.5 | PASS |
| | | VN | -20 | 0.64 | 0.000755 | ± 2.5 | PASS |
| | | VN | -10 | -0.83 | -0.000979 | ± 2.5 | PASS |
| | | VN | 0 | 2.74 | 0.003233 | ± 2.5 | PASS |
| | | VN | 10 | -0.76 | -0.000897 | ± 2.5 | PASS |
| | | VN | 20 | 2.37 | 0.002796 | ± 2.5 | PASS |
| | | VN | 30 | 4.32 | 0.005097 | ± 2.5 | PASS |
| | | VN | 40 | -1.07 | -0.001263 | ± 2.5 | PASS |
| | | VN | 50 | 3.3 | 0.003894 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 4.67 | 0.005583 | ± 2.5 | PASS |
| | | VN | -20 | 1.42 | 0.001698 | ± 2.5 | PASS |
| | | VN | -10 | 2.26 | 0.002702 | ± 2.5 | PASS |
| | | VN | 0 | 0.15 | 0.000179 | ± 2.5 | PASS |
| | | VN | 10 | 2.9 | 0.003467 | ± 2.5 | PASS |
| | | VN | 20 | 2.7 | 0.003228 | ± 2.5 | PASS |
| | | VN | 30 | 0.54 | 0.000646 | ± 2.5 | PASS |
| | | VN | 40 | 1.1 | 0.001315 | ± 2.5 | PASS |
| | | VN | 50 | 4.04 | 0.004830 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | MCH | VN | -30 | -0.24 | -0.000283 | ± 2.5 | PASS |
| | | VN | -20 | 1.38 | 0.001628 | ± 2.5 | PASS |
| | | VN | -10 | 4.49 | 0.005298 | ± 2.5 | PASS |
| | | VN | 0 | -1.46 | -0.001723 | ± 2.5 | PASS |
| | | VN | 10 | 2.17 | 0.002560 | ± 2.5 | PASS |
| | | VN | 20 | -1.51 | -0.001782 | ± 2.5 | PASS |
| | | VN | 30 | -0.55 | -0.000649 | ± 2.5 | PASS |
| | | VN | 40 | 2.63 | 0.003103 | ± 2.5 | PASS |
| | | VN | 50 | 4.44 | 0.005239 | ± 2.5 | PASS |
| | HCH | VN | -30 | 0.55 | 0.000649 | ± 2.5 | PASS |
| | | VN | -20 | -1.12 | -0.001322 | ± 2.5 | PASS |
| | | VN | -10 | 1.97 | 0.002324 | ± 2.5 | PASS |
| | | VN | 0 | -1.58 | -0.001864 | ± 2.5 | PASS |
| | | VN | 10 | 4.77 | 0.005628 | ± 2.5 | PASS |
| | | VN | 20 | 4.35 | 0.005133 | ± 2.5 | PASS |
| | | VN | 30 | 0.63 | 0.000743 | ± 2.5 | PASS |
| | | VN | 40 | 1.15 | 0.001357 | ± 2.5 | PASS |
| | | VN | 50 | -1.58 | -0.001864 | ± 2.5 | PASS |

**Channel Bandwidth: 5 MHz**

| Channel Bandwidth: 5.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 4.15 | 0.005021 | ± 2.5 | PASS |
| | | VN | TN | -0.94 | -0.001137 | ± 2.5 | PASS |
| | | VH | TN | 0.14 | 0.000169 | ± 2.5 | PASS |
| | MCH | VL | TN | -1.83 | -0.002188 | ± 2.5 | PASS |
| | | VN | TN | 2.83 | 0.003383 | ± 2.5 | PASS |
| | | VH | TN | -0.92 | -0.001100 | ± 2.5 | PASS |
| | HCH | VL | TN | -1.74 | -0.002056 | ± 2.5 | PASS |
| | | VN | TN | 2.43 | 0.002871 | ± 2.5 | PASS |
| | | VH | TN | 4.01 | 0.004737 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | -0.18 | -0.000218 | ± 2.5 | PASS |
| | | VN | TN | 2.17 | 0.002626 | ± 2.5 | PASS |
| | | VH | TN | 3.62 | 0.004380 | ± 2.5 | PASS |
| | MCH | VL | TN | 4.85 | 0.005798 | ± 2.5 | PASS |
| | | VN | TN | 2.58 | 0.003084 | ± 2.5 | PASS |
| | | VH | TN | 1.97 | 0.002355 | ± 2.5 | PASS |
| | HCH | VL | TN | -1.95 | -0.002304 | ± 2.5 | PASS |
| | | VN | TN | 1.87 | 0.002209 | ± 2.5 | PASS |
| | | VH | TN | -0.14 | -0.000165 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 0.5 | 0.000605 | ± 2.5 | PASS |
| | | VN | -20 | -1.84 | -0.002226 | ± 2.5 | PASS |
| | | VN | -10 | 4.28 | 0.005178 | ± 2.5 | PASS |
| | | VN | 0 | 3.94 | 0.004767 | ± 2.5 | PASS |
| | | VN | 10 | -1.77 | -0.002142 | ± 2.5 | PASS |
| | | VN | 20 | 1.46 | 0.001766 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 30 | 0.55 | 0.000665 | ± 2.5 | PASS |
| | | VN | 40 | -1.26 | -0.001525 | ± 2.5 | PASS |
| | | VN | 50 | 0.69 | 0.000835 | ± 2.5 | PASS |
| | MCH | VN | -30 | 0.82 | 0.000980 | ± 2.5 | PASS |
| | | VN | -20 | 0.06 | 0.000072 | ± 2.5 | PASS |
| | | VN | -10 | 0.27 | 0.000323 | ± 2.5 | PASS |
| | | VN | 0 | 0.65 | 0.000777 | ± 2.5 | PASS |
| | | VN | 10 | 1.86 | 0.002224 | ± 2.5 | PASS |
| | | VN | 20 | 2.51 | 0.003001 | ± 2.5 | PASS |
| | | VN | 30 | 1.23 | 0.001470 | ± 2.5 | PASS |
| | | VN | 40 | 3.33 | 0.003981 | ± 2.5 | PASS |
| | | VN | 50 | 4.71 | 0.005631 | ± 2.5 | PASS |
| | HCH | VN | -30 | 1.21 | 0.001429 | ± 2.5 | PASS |
| | | VN | -20 | -1.14 | -0.001347 | ± 2.5 | PASS |
| | | VN | -10 | 2.14 | 0.002528 | ± 2.5 | PASS |
| | | VN | 0 | 0.52 | 0.000614 | ± 2.5 | PASS |
| | | VN | 10 | 3.7 | 0.004371 | ± 2.5 | PASS |
| | | VN | 20 | 1.41 | 0.001666 | ± 2.5 | PASS |
| | | VN | 30 | 1.57 | 0.001855 | ± 2.5 | PASS |
| | | VN | 40 | 0.98 | 0.001158 | ± 2.5 | PASS |
| | | VN | 50 | 2 | 0.002363 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -0.95 | -0.001136 | ± 2.5 | PASS |
| | | VN | -20 | 1.75 | 0.002092 | ± 2.5 | PASS |
| | | VN | -10 | 3.64 | 0.004351 | ± 2.5 | PASS |
| | | VN | 0 | 3.63 | 0.004340 | ± 2.5 | PASS |
| | | VN | 10 | 2.92 | 0.003491 | ± 2.5 | PASS |
| | | VN | 20 | -1.73 | -0.002068 | ± 2.5 | PASS |
| | | VN | 30 | 0.3 | 0.000359 | ± 2.5 | PASS |
| | | VN | 40 | 0.59 | 0.000705 | ± 2.5 | PASS |
| | | VN | 50 | 3.91 | 0.004674 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.18 | 0.001394 | ± 2.5 | PASS |
| | | VN | -20 | -0.16 | -0.000189 | ± 2.5 | PASS |
| | | VN | -10 | 1.85 | 0.002185 | ± 2.5 | PASS |
| | | VN | 0 | 2.52 | 0.002977 | ± 2.5 | PASS |
| | | VN | 10 | 3.7 | 0.004371 | ± 2.5 | PASS |
| | | VN | 20 | 4.91 | 0.005800 | ± 2.5 | PASS |
| | | VN | 30 | 2.56 | 0.003024 | ± 2.5 | PASS |
| | | VN | 40 | 1.79 | 0.002115 | ± 2.5 | PASS |
| | | VN | 50 | -0.68 | -0.000803 | ± 2.5 | PASS |
| | HCH | VN | -30 | 2.4 | 0.002835 | ± 2.5 | PASS |
| | | VN | -20 | 2.18 | 0.002575 | ± 2.5 | PASS |
| | | VN | -10 | 3.96 | 0.004678 | ± 2.5 | PASS |
| | | VN | 0 | -1.7 | -0.002008 | ± 2.5 | PASS |
| | | VN | 10 | -0.88 | -0.001040 | ± 2.5 | PASS |
| | | VN | 20 | -1.91 | -0.002256 | ± 2.5 | PASS |
| | | VN | 30 | -0.26 | -0.000307 | ± 2.5 | PASS |
| | | VN | 40 | -1.65 | -0.001949 | ± 2.5 | PASS |
| | | VN | 50 | -0.74 | -0.000874 | ± 2.5 | PASS |

**Channel Bandwidth: 10 MHz**

| Channel Bandwidth: 10.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 3.09 | 0.003727 | ± 2.5 | PASS |
| | | VN | TN | 0.26 | 0.000314 | ± 2.5 | PASS |
| | | VH | TN | 1.87 | 0.002256 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.44 | 0.004112 | ± 2.5 | PASS |
| | | VN | TN | -0.72 | -0.000861 | ± 2.5 | PASS |
| | | VH | TN | 2.16 | 0.002582 | ± 2.5 | PASS |
| | HCH | VL | TN | -1.59 | -0.001884 | ± 2.5 | PASS |
| | | VN | TN | 0.09 | 0.000107 | ± 2.5 | PASS |
| | | VH | TN | 1.92 | 0.002275 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | -0.36 | -0.000434 | ± 2.5 | PASS |
| | | VN | TN | 2.81 | 0.003390 | ± 2.5 | PASS |
| | | VH | TN | -1.96 | -0.002364 | ± 2.5 | PASS |
| | MCH | VL | TN | 0.54 | 0.000646 | ± 2.5 | PASS |
| | | VN | TN | 4.58 | 0.005475 | ± 2.5 | PASS |
| | | VH | TN | -0.38 | -0.000454 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.65 | -0.000770 | ± 2.5 | PASS |
| | | VN | TN | 0.06 | 0.000071 | ± 2.5 | PASS |
| | | VH | TN | 2.32 | 0.002749 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 1.03 | 0.001242 | ± 2.5 | PASS |
| | | VN | -20 | 0.15 | 0.000181 | ± 2.5 | PASS |
| | | VN | -10 | -0.18 | -0.000217 | ± 2.5 | PASS |
| | | VN | 0 | -1.16 | -0.001399 | ± 2.5 | PASS |
| | | VN | 10 | 0.93 | 0.001122 | ± 2.5 | PASS |
| | | VN | 20 | 2.43 | 0.002931 | ± 2.5 | PASS |
| | | VN | 30 | 3.11 | 0.003752 | ± 2.5 | PASS |
| | | VN | 40 | 3.24 | 0.003908 | ± 2.5 | PASS |
| | | VN | 50 | -1 | -0.001206 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.42 | 0.001698 | ± 2.5 | PASS |
| | | VN | -20 | 2.43 | 0.002905 | ± 2.5 | PASS |
| | | VN | -10 | 4.66 | 0.005571 | ± 2.5 | PASS |
| | | VN | 0 | 3.24 | 0.003873 | ± 2.5 | PASS |
| | | VN | 10 | 3.38 | 0.004041 | ± 2.5 | PASS |
| | | VN | 20 | -1.85 | -0.002212 | ± 2.5 | PASS |
| | | VN | 30 | 0.42 | 0.000502 | ± 2.5 | PASS |
| | | VN | 40 | 1.03 | 0.001231 | ± 2.5 | PASS |
| | | VN | 50 | 0.56 | 0.000669 | ± 2.5 | PASS |
| | HCH | VN | -30 | -0.49 | -0.000581 | ± 2.5 | PASS |
| | | VN | -20 | 4.79 | 0.005675 | ± 2.5 | PASS |
| | | VN | -10 | 3.78 | 0.004479 | ± 2.5 | PASS |
| | | VN | 0 | 3.02 | 0.003578 | ± 2.5 | PASS |
| | | VN | 10 | 1.11 | 0.001315 | ± 2.5 | PASS |
| | | VN | 20 | 0.52 | 0.000616 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 30 | 2.84 | 0.003365 | ± 2.5 | PASS |
| | | VN | 40 | 2.74 | 0.003246 | ± 2.5 | PASS |
| | | VN | 50 | 1.27 | 0.001505 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -1.76 | -0.002104 | ± 2.5 | PASS |
| | | VN | -20 | -1.92 | -0.002295 | ± 2.5 | PASS |
| | | VN | -10 | 1.3 | 0.001554 | ± 2.5 | PASS |
| | | VN | 0 | 4.36 | 0.005212 | ± 2.5 | PASS |
| | | VN | 10 | 2.16 | 0.002582 | ± 2.5 | PASS |
| | | VN | 20 | 0.82 | 0.000980 | ± 2.5 | PASS |
| | | VN | 30 | 3.83 | 0.004579 | ± 2.5 | PASS |
| | | VN | 40 | 1.44 | 0.001721 | ± 2.5 | PASS |
| | | VN | 50 | -1.84 | -0.002200 | ± 2.5 | PASS |
| | MCH | VN | -30 | 3.33 | 0.003945 | ± 2.5 | PASS |
| | | VN | -20 | 2.23 | 0.002642 | ± 2.5 | PASS |
| | | VN | -10 | 0.82 | 0.000972 | ± 2.5 | PASS |
| | | VN | 0 | 3.22 | 0.003815 | ± 2.5 | PASS |
| | | VN | 10 | -1.76 | -0.002085 | ± 2.5 | PASS |
| | | VN | 20 | 4.1 | 0.004858 | ± 2.5 | PASS |
| | | VN | 30 | 0.83 | 0.000983 | ± 2.5 | PASS |
| | | VN | 40 | -0.03 | -0.000036 | ± 2.5 | PASS |
| | | VN | 50 | 0.58 | 0.000687 | ± 2.5 | PASS |
| | HCH | VN | -30 | 4.13 | 0.004893 | ± 2.5 | PASS |
| | | VN | -20 | 3.09 | 0.003661 | ± 2.5 | PASS |
| | | VN | -10 | -1.7 | -0.002014 | ± 2.5 | PASS |
| | | VN | 0 | 0.65 | 0.000770 | ± 2.5 | PASS |
| | | VN | 10 | 4.02 | 0.004763 | ± 2.5 | PASS |
| | | VN | 20 | -1.96 | -0.002322 | ± 2.5 | PASS |
| | | VN | 30 | -1.76 | -0.002085 | ± 2.5 | PASS |
| | | VN | 40 | -1.71 | -0.002026 | ± 2.5 | PASS |
| | | VN | 50 | 2.85 | 0.003377 | ± 2.5 | PASS |

**Band 7**

**Channel Bandwidth: 5.0 MHz**

| Channel Bandwidth: 5.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 4.42 | 0.002388 | ± 2.5 | PASS |
| | | VN | TN | -0.6 | -0.000324 | ± 2.5 | PASS |
| | | VH | TN | -1.09 | -0.000589 | ± 2.5 | PASS |
| | MCH | VL | TN | 4.74 | 0.002518 | ± 2.5 | PASS |
| | | VN | TN | 0.77 | 0.000409 | ± 2.5 | PASS |
| | | VH | TN | -0.94 | -0.000499 | ± 2.5 | PASS |
| | HCH | VL | TN | 3.09 | 0.001614 | ± 2.5 | PASS |
| | | VN | TN | 4.89 | 0.002554 | ± 2.5 | PASS |
| | | VH | TN | 2.78 | 0.001452 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | -1.83 | -0.000989 | ± 2.5 | PASS |
| | | VN | TN | 1.67 | 0.000902 | ± 2.5 | PASS |
| | | VH | TN | -1.66 | -0.000897 | ± 2.5 | PASS |
| | | VL | TN | 4.26 | 0.002263 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | MCH | VN | TN | -0.49 | -0.000260 | ± 2.5 | PASS |
| | | VH | TN | 4.24 | 0.002252 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.96 | -0.000503 | ± 2.5 | PASS |
| | | VN | TN | -0.5 | -0.000262 | ± 2.5 | PASS |
| | | VH | TN | 3.92 | 0.002053 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -1.63 | -0.000881 | ± 2.5 | PASS |
| | | VN | -20 | 2.09 | 0.001129 | ± 2.5 | PASS |
| | | VN | -10 | -1.18 | -0.000638 | ± 2.5 | PASS |
| | | VN | 0 | 0.22 | 0.000119 | ± 2.5 | PASS |
| | | VN | 10 | 1.48 | 0.000800 | ± 2.5 | PASS |
| | | VN | 20 | -1.97 | -0.001064 | ± 2.5 | PASS |
| | | VN | 30 | 2.22 | 0.001200 | ± 2.5 | PASS |
| | | VN | 40 | 3.81 | 0.002059 | ± 2.5 | PASS |
| | | VN | 50 | 2.12 | 0.001146 | ± 2.5 | PASS |
| | MCH | VN | -30 | 0.11 | 0.000058 | ± 2.5 | PASS |
| | | VN | -20 | -0.07 | -0.000037 | ± 2.5 | PASS |
| | | VN | -10 | -1.67 | -0.000887 | ± 2.5 | PASS |
| | | VN | 0 | 4.6 | 0.002444 | ± 2.5 | PASS |
| | | VN | 10 | 3.65 | 0.001939 | ± 2.5 | PASS |
| | | VN | 20 | 3.33 | 0.001769 | ± 2.5 | PASS |
| | | VN | 30 | 4.13 | 0.002194 | ± 2.5 | PASS |
| | | VN | 40 | 0.64 | 0.000340 | ± 2.5 | PASS |
| | | VN | 50 | 4.36 | 0.002316 | ± 2.5 | PASS |
| | HCH | VN | -30 | 1.93 | 0.001008 | ± 2.5 | PASS |
| | | VN | -20 | 0.88 | 0.000460 | ± 2.5 | PASS |
| | | VN | -10 | 1.14 | 0.000596 | ± 2.5 | PASS |
| | | VN | 0 | 1.16 | 0.000606 | ± 2.5 | PASS |
| | | VN | 10 | -1.21 | -0.000632 | ± 2.5 | PASS |
| | | VN | 20 | 1.91 | 0.000998 | ± 2.5 | PASS |
| | | VN | 30 | 1.09 | 0.000569 | ± 2.5 | PASS |
| | | VN | 40 | 0.68 | 0.000355 | ± 2.5 | PASS |
| | | VN | 50 | -0.38 | -0.000199 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 2.87 | 0.001551 | ± 2.5 | PASS |
| | | VN | -20 | 3.77 | 0.002037 | ± 2.5 | PASS |
| | | VN | -10 | -0.35 | -0.000189 | ± 2.5 | PASS |
| | | VN | 0 | 0.6 | 0.000324 | ± 2.5 | PASS |
| | | VN | 10 | 0.62 | 0.000335 | ± 2.5 | PASS |
| | | VN | 20 | 0.13 | 0.000070 | ± 2.5 | PASS |
| | | VN | 30 | 1.9 | 0.001027 | ± 2.5 | PASS |
| | | VN | 40 | 1.48 | 0.000800 | ± 2.5 | PASS |
| | | VN | 50 | -0.78 | -0.000421 | ± 2.5 | PASS |
| | MCH | VN | -30 | -0.74 | -0.000393 | ± 2.5 | PASS |
| | | VN | -20 | -0.87 | -0.000462 | ± 2.5 | PASS |
| | | VN | -10 | 3.44 | 0.001827 | ± 2.5 | PASS |
| | | VN | 0 | 3.37 | 0.001790 | ± 2.5 | PASS |
| | | VN | 10 | -1.76 | -0.000935 | ± 2.5 | PASS |
| | | VN | 20 | 0.54 | 0.000287 | ± 2.5 | PASS |
| | | VN | 30 | 1.11 | 0.000590 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 40 | 3.99 | 0.002120 | ± 2.5 | PASS |
| | | VN | 50 | 3.51 | 0.001865 | ± 2.5 | PASS |
| | HCH | VN | -30 | 4.53 | 0.002366 | ± 2.5 | PASS |
| | | VN | -20 | 2.36 | 0.001233 | ± 2.5 | PASS |
| | | VN | -10 | -1.97 | -0.001029 | ± 2.5 | PASS |
| | | VN | 0 | 3.25 | 0.001698 | ± 2.5 | PASS |
| | | VN | 10 | 4.67 | 0.002440 | ± 2.5 | PASS |
| | | VN | 20 | -1.49 | -0.000778 | ± 2.5 | PASS |
| | | VN | 30 | 3.21 | 0.001677 | ± 2.5 | PASS |
| | | VN | 40 | 4.98 | 0.002601 | ± 2.5 | PASS |
| | | VN | 50 | -0.47 | -0.000246 | ± 2.5 | PASS |

**Channel Bandwidth: 10.0 MHz**

| Channel Bandwidth: 10.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 4.05 | 0.002187 | ± 2.5 | PASS |
| | | VN | TN | 4.24 | 0.002290 | ± 2.5 | PASS |
| | | VH | TN | 3.71 | 0.002004 | ± 2.5 | PASS |
| | MCH | VL | TN | 1.45 | 0.000770 | ± 2.5 | PASS |
| | | VN | TN | 3.29 | 0.001748 | ± 2.5 | PASS |
| | | VH | TN | 2.11 | 0.001121 | ± 2.5 | PASS |
| | HCH | VL | TN | -1.6 | -0.000836 | ± 2.5 | PASS |
| | | VN | TN | 4.14 | 0.002164 | ± 2.5 | PASS |
| | | VH | TN | 0.53 | 0.000277 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 0.94 | 0.000508 | ± 2.5 | PASS |
| | | VN | TN | 1.72 | 0.000929 | ± 2.5 | PASS |
| | | VH | TN | -0.79 | -0.000427 | ± 2.5 | PASS |
| | MCH | VL | TN | -0.11 | -0.000058 | ± 2.5 | PASS |
| | | VN | TN | 1.79 | 0.000951 | ± 2.5 | PASS |
| | | VH | TN | 3.57 | 0.001896 | ± 2.5 | PASS |
| | HCH | VL | TN | 1.94 | 0.001014 | ± 2.5 | PASS |
| | | VN | TN | -0.98 | -0.000512 | ± 2.5 | PASS |
| | | VH | TN | -1.32 | -0.000690 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 2.88 | 0.001555 | ± 2.5 | PASS |
| | | VN | -20 | -1.85 | -0.000999 | ± 2.5 | PASS |
| | | VN | -10 | -0.57 | -0.000308 | ± 2.5 | PASS |
| | | VN | 0 | 4.95 | 0.002674 | ± 2.5 | PASS |
| | | VN | 10 | 4.81 | 0.002598 | ± 2.5 | PASS |
| | | VN | 20 | 1 | 0.000540 | ± 2.5 | PASS |
| | | VN | 30 | 1.79 | 0.000967 | ± 2.5 | PASS |
| | | VN | 40 | 4.24 | 0.002290 | ± 2.5 | PASS |
| | | VN | 50 | 0.29 | 0.000157 | ± 2.5 | PASS |
| | MCH | VN | -30 | 4.04 | 0.002146 | ± 2.5 | PASS |
| | | VN | -20 | 0.8 | 0.000425 | ± 2.5 | PASS |
| | | VN | -10 | -0.88 | -0.000467 | ± 2.5 | PASS |
| | | VN | 0 | 4.01 | 0.002130 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 10 | 0.13 | 0.000069 | ± 2.5 | PASS |
| | | VN | 20 | 0.82 | 0.000436 | ± 2.5 | PASS |
| | | VN | 30 | 3.21 | 0.001705 | ± 2.5 | PASS |
| | | VN | 40 | -1.75 | -0.000930 | ± 2.5 | PASS |
| | | VN | 50 | 0.03 | 0.000016 | ± 2.5 | PASS |
| | HCH | VN | -30 | 3.97 | 0.002075 | ± 2.5 | PASS |
| | | VN | -20 | 1.35 | 0.000706 | ± 2.5 | PASS |
| | | VN | -10 | -1.5 | -0.000784 | ± 2.5 | PASS |
| | | VN | 0 | -0.11 | -0.000057 | ± 2.5 | PASS |
| | | VN | 10 | 2.01 | 0.001050 | ± 2.5 | PASS |
| | | VN | 20 | -0.85 | -0.000444 | ± 2.5 | PASS |
| | | VN | 30 | 0.34 | 0.000178 | ± 2.5 | PASS |
| | | VN | 40 | 2.5 | 0.001307 | ± 2.5 | PASS |
| | | VN | 50 | 0.94 | 0.000491 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 4.59 | 0.002479 | ± 2.5 | PASS |
| | | VN | -20 | 3.24 | 0.001750 | ± 2.5 | PASS |
| | | VN | -10 | 2.46 | 0.001329 | ± 2.5 | PASS |
| | | VN | 0 | 3.37 | 0.001820 | ± 2.5 | PASS |
| | | VN | 10 | 0.5 | 0.000270 | ± 2.5 | PASS |
| | | VN | 20 | 3.52 | 0.001901 | ± 2.5 | PASS |
| | | VN | 30 | 0.87 | 0.000470 | ± 2.5 | PASS |
| | | VN | 40 | 3.07 | 0.001658 | ± 2.5 | PASS |
| | | VN | 50 | 1.05 | 0.000567 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.49 | 0.000792 | ± 2.5 | PASS |
| | | VN | -20 | 1.88 | 0.000999 | ± 2.5 | PASS |
| | | VN | -10 | -0.55 | -0.000292 | ± 2.5 | PASS |
| | | VN | 0 | 3.84 | 0.002040 | ± 2.5 | PASS |
| | | VN | 10 | 2.57 | 0.001365 | ± 2.5 | PASS |
| | | VN | 20 | 3.42 | 0.001817 | ± 2.5 | PASS |
| | | VN | 30 | 1.47 | 0.000781 | ± 2.5 | PASS |
| | | VN | 40 | 0.02 | 0.000011 | ± 2.5 | PASS |
| | | VN | 50 | 3.66 | 0.001944 | ± 2.5 | PASS |
| | HCH | VN | -30 | -0.88 | -0.000460 | ± 2.5 | PASS |
| | | VN | -20 | 4.96 | 0.002592 | ± 2.5 | PASS |
| | | VN | -10 | 1.74 | 0.000909 | ± 2.5 | PASS |
| | | VN | 0 | 1.9 | 0.000993 | ± 2.5 | PASS |
| | | VN | 10 | -0.94 | -0.000491 | ± 2.5 | PASS |
| | | VN | 20 | -0.13 | -0.000068 | ± 2.5 | PASS |
| | | VN | 30 | 2.5 | 0.001307 | ± 2.5 | PASS |
| | | VN | 40 | 3.68 | 0.001923 | ± 2.5 | PASS |
| | | VN | 50 | -0.88 | -0.000460 | ± 2.5 | PASS |

**Channel Bandwidth: 15.0 MHz**

| Channel Bandwidth: 15.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 0.83 | 0.000448 | ± 2.5 | PASS |
| | | VN | TN | 1.73 | 0.000934 | ± 2.5 | PASS |
| | | VH | TN | 2.05 | 0.001107 | ± 2.5 | PASS |
| | | VL | TN | 0.42 | 0.000223 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | MCH | VN | TN | 4.62 | 0.002454 | ± 2.5 | PASS |
| | | VH | TN | 1.74 | 0.000924 | ± 2.5 | PASS |
| | HCH | VL | TN | 0.3 | 0.000157 | ± 2.5 | PASS |
| | | VN | TN | -0.59 | -0.000308 | ± 2.5 | PASS |
| | | VH | TN | 0.69 | 0.000361 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 3.31 | 0.001787 | ± 2.5 | PASS |
| | | VN | TN | 0.6 | 0.000324 | ± 2.5 | PASS |
| | | VH | TN | 0.96 | 0.000518 | ± 2.5 | PASS |
| | MCH | VL | TN | -0.3 | -0.000159 | ± 2.5 | PASS |
| | | VN | TN | -1.1 | -0.000584 | ± 2.5 | PASS |
| | | VH | TN | 0.93 | 0.000494 | ± 2.5 | PASS |
| | HCH | VL | TN | 4.43 | 0.002316 | ± 2.5 | PASS |
| | | VN | TN | 1.33 | 0.000695 | ± 2.5 | PASS |
| | | VH | TN | 0.9 | 0.000471 | ± 2.5 | PASS |

Temperature

| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|---|
| QPSK | LCH | VN | -30 | 3.86 | 0.002084 | ± 2.5 | PASS |
| | | VN | -20 | -0.97 | -0.000524 | ± 2.5 | PASS |
| | | VN | -10 | -1.13 | -0.000610 | ± 2.5 | PASS |
| | | VN | 0 | -1.9 | -0.001026 | ± 2.5 | PASS |
| | | VN | 10 | 3.77 | 0.002035 | ± 2.5 | PASS |
| | | VN | 20 | 3.34 | 0.001803 | ± 2.5 | PASS |
| | | VN | 30 | 4.18 | 0.002256 | ± 2.5 | PASS |
| | | VN | 40 | 2.41 | 0.001301 | ± 2.5 | PASS |
| | | VN | 50 | 1.54 | 0.000831 | ± 2.5 | PASS |
| | MCH | VN | -30 | -1.43 | -0.000760 | ± 2.5 | PASS |
| | | VN | -20 | 2.27 | 0.001206 | ± 2.5 | PASS |
| | | VN | -10 | 4.2 | 0.002231 | ± 2.5 | PASS |
| | | VN | 0 | 4.14 | 0.002199 | ± 2.5 | PASS |
| | | VN | 10 | 1.38 | 0.000733 | ± 2.5 | PASS |
| | | VN | 20 | -1.03 | -0.000547 | ± 2.5 | PASS |
| | | VN | 30 | 0.84 | 0.000446 | ± 2.5 | PASS |
| | | VN | 40 | -1.7 | -0.000903 | ± 2.5 | PASS |
| | | VN | 50 | 1.61 | 0.000855 | ± 2.5 | PASS |
| | HCH | VN | -30 | 3.51 | 0.001835 | ± 2.5 | PASS |
| | | VN | -20 | 4.2 | 0.002196 | ± 2.5 | PASS |
| | | VN | -10 | 1.24 | 0.000648 | ± 2.5 | PASS |
| | | VN | 0 | -0.05 | -0.000026 | ± 2.5 | PASS |
| | | VN | 10 | 4.93 | 0.002578 | ± 2.5 | PASS |
| | | VN | 20 | -0.48 | -0.000251 | ± 2.5 | PASS |
| | | VN | 30 | -0.46 | -0.000241 | ± 2.5 | PASS |
| | | VN | 40 | 3.39 | 0.001773 | ± 2.5 | PASS |
| | | VN | 50 | 4.81 | 0.002515 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 2.27 | 0.001225 | ± 2.5 | PASS |
| | | VN | -20 | -0.47 | -0.000254 | ± 2.5 | PASS |
| | | VN | -10 | 1.71 | 0.000923 | ± 2.5 | PASS |
| | | VN | 0 | 2.64 | 0.001425 | ± 2.5 | PASS |
| | | VN | 10 | 2.97 | 0.001603 | ± 2.5 | PASS |
| | | VN | 20 | -0.44 | -0.000238 | ± 2.5 | PASS |
| | | VN | 30 | 0.11 | 0.000059 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 40 | 4.34 | 0.002343 | ± 2.5 | PASS |
| | | VN | 50 | -1.3 | -0.000702 | ± 2.5 | PASS |
| | MCH | VN | -30 | -0.7 | -0.000372 | ± 2.5 | PASS |
| | | VN | -20 | 1.31 | 0.000696 | ± 2.5 | PASS |
| | | VN | -10 | 3.96 | 0.002104 | ± 2.5 | PASS |
| | | VN | 0 | -1.59 | -0.000845 | ± 2.5 | PASS |
| | | VN | 10 | 1.26 | 0.000669 | ± 2.5 | PASS |
| | | VN | 20 | 3.01 | 0.001599 | ± 2.5 | PASS |
| | | VN | 30 | -0.63 | -0.000335 | ± 2.5 | PASS |
| | | VN | 40 | 2.79 | 0.001482 | ± 2.5 | PASS |
| | | VN | 50 | 1.46 | 0.000776 | ± 2.5 | PASS |
| | HCH | VN | -30 | -1.6 | -0.000837 | ± 2.5 | PASS |
| | | VN | -20 | 4.6 | 0.002405 | ± 2.5 | PASS |
| | | VN | -10 | 2.4 | 0.001255 | ± 2.5 | PASS |
| | | VN | 0 | 4.27 | 0.002233 | ± 2.5 | PASS |
| | | VN | 10 | 2.94 | 0.001537 | ± 2.5 | PASS |
| | | VN | 20 | -1.5 | -0.000784 | ± 2.5 | PASS |
| | | VN | 30 | 1.88 | 0.000983 | ± 2.5 | PASS |
| | | VN | 40 | 3.22 | 0.001684 | ± 2.5 | PASS |
| | | VN | 50 | 3.35 | 0.001752 | ± 2.5 | PASS |

**Channel Bandwidth: 20.0 MHz**

| Channel Bandwidth:20.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 1.69 | 0.000911 | ± 2.5 | PASS |
| | | VN | TN | 4.63 | 0.002496 | ± 2.5 | PASS |
| | | VH | TN | 4.91 | 0.002647 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.33 | 0.001769 | ± 2.5 | PASS |
| | | VN | TN | 4.16 | 0.002210 | ± 2.5 | PASS |
| | | VH | TN | 3.41 | 0.001811 | ± 2.5 | PASS |
| | HCH | VL | TN | 4.48 | 0.002346 | ± 2.5 | PASS |
| | | VN | TN | 1.67 | 0.000874 | ± 2.5 | PASS |
| | | VH | TN | -0.36 | -0.000188 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | -0.83 | -0.000447 | ± 2.5 | PASS |
| | | VN | TN | -0.2 | -0.000108 | ± 2.5 | PASS |
| | | VH | TN | 0.96 | 0.000518 | ± 2.5 | PASS |
| | MCH | VL | TN | 0.33 | 0.000175 | ± 2.5 | PASS |
| | | VN | TN | 4.51 | 0.002396 | ± 2.5 | PASS |
| | | VH | TN | 2.92 | 0.001551 | ± 2.5 | PASS |
| | HCH | VL | TN | 3.73 | 0.001953 | ± 2.5 | PASS |
| | | VN | TN | 0.88 | 0.000461 | ± 2.5 | PASS |
| | | VH | TN | 0.92 | 0.000482 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -1.07 | -0.000577 | ± 2.5 | PASS |
| | | VN | -20 | 2.47 | 0.001332 | ± 2.5 | PASS |
| | | VN | -10 | 2.73 | 0.001472 | ± 2.5 | PASS |
| | | VN | 0 | -1.85 | -0.000997 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 10 | -0.08 | -0.000043 | ± 2.5 | PASS |
| | | VN | 20 | 1.93 | 0.001040 | ± 2.5 | PASS |
| | | VN | 30 | -0.05 | -0.000027 | ± 2.5 | PASS |
| | | VN | 40 | -0.62 | -0.000334 | ± 2.5 | PASS |
| | | VN | 50 | 3.75 | 0.002022 | ± 2.5 | PASS |
| | MCH | VN | -30 | 2.68 | 0.001424 | ± 2.5 | PASS |
| | | VN | -20 | 4.75 | 0.002523 | ± 2.5 | PASS |
| | | VN | -10 | 3.99 | 0.002120 | ± 2.5 | PASS |
| | | VN | 0 | 2.77 | 0.001471 | ± 2.5 | PASS |
| | | VN | 10 | 4.78 | 0.002539 | ± 2.5 | PASS |
| | | VN | 20 | -1.25 | -0.000664 | ± 2.5 | PASS |
| | | VN | 30 | 4.12 | 0.002189 | ± 2.5 | PASS |
| | | VN | 40 | -0.7 | -0.000372 | ± 2.5 | PASS |
| | | VN | 50 | 3.84 | 0.002040 | ± 2.5 | PASS |
| | HCH | VN | -30 | 2.78 | 0.001455 | ± 2.5 | PASS |
| | | VN | -20 | 4.76 | 0.002492 | ± 2.5 | PASS |
| | | VN | -10 | 2.59 | 0.001356 | ± 2.5 | PASS |
| | | VN | 0 | -0.47 | -0.000246 | ± 2.5 | PASS |
| | | VN | 10 | -0.67 | -0.000351 | ± 2.5 | PASS |
| | | VN | 20 | 3.82 | 0.002000 | ± 2.5 | PASS |
| | | VN | 30 | 4.53 | 0.002372 | ± 2.5 | PASS |
| | | VN | 40 | -0.84 | -0.000440 | ± 2.5 | PASS |
| | | VN | 50 | 1.49 | 0.000780 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 1.14 | 0.000615 | ± 2.5 | PASS |
| | | VN | -20 | 0.08 | 0.000043 | ± 2.5 | PASS |
| | | VN | -10 | -0.57 | -0.000307 | ± 2.5 | PASS |
| | | VN | 0 | 1.15 | 0.000620 | ± 2.5 | PASS |
| | | VN | 10 | -0.51 | -0.000275 | ± 2.5 | PASS |
| | | VN | 20 | 1.95 | 0.001051 | ± 2.5 | PASS |
| | | VN | 30 | 0.98 | 0.000528 | ± 2.5 | PASS |
| | | VN | 40 | -1.21 | -0.000652 | ± 2.5 | PASS |
| | | VN | 50 | -0.07 | -0.000038 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.77 | 0.000940 | ± 2.5 | PASS |
| | | VN | -20 | -0.29 | -0.000154 | ± 2.5 | PASS |
| | | VN | -10 | -1.86 | -0.000988 | ± 2.5 | PASS |
| | | VN | 0 | 3.84 | 0.002040 | ± 2.5 | PASS |
| | | VN | 10 | 0.54 | 0.000287 | ± 2.5 | PASS |
| | | VN | 20 | 2.35 | 0.001248 | ± 2.5 | PASS |
| | | VN | 30 | 1.01 | 0.000537 | ± 2.5 | PASS |
| | | VN | 40 | 0.42 | 0.000223 | ± 2.5 | PASS |
| | | VN | 50 | -1.91 | -0.001015 | ± 2.5 | PASS |
| | HCH | VN | -30 | 2.64 | 0.001382 | ± 2.5 | PASS |
| | | VN | -20 | 3.03 | 0.001586 | ± 2.5 | PASS |
| | | VN | -10 | 2.95 | 0.001545 | ± 2.5 | PASS |
| | | VN | 0 | -0.56 | -0.000293 | ± 2.5 | PASS |
| | | VN | 10 | 1.33 | 0.000696 | ± 2.5 | PASS |
| | | VN | 20 | 2.42 | 0.001267 | ± 2.5 | PASS |
| | | VN | 30 | -1.04 | -0.000545 | ± 2.5 | PASS |
| | | VN | 40 | 1.13 | 0.000592 | ± 2.5 | PASS |
| | | VN | 50 | -1.63 | -0.000853 | ± 2.5 | PASS |

**Band 12**

**Channel Bandwidth: 1.4 MHz**

| Channel Bandwidth: 1.4MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 2.98 | 0.001604 | ± 2.5 | PASS |
| | | VN | TN | 4.06 | 0.002186 | ± 2.5 | PASS |
| | | VH | TN | 4.9 | 0.002638 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.42 | 0.001817 | ± 2.5 | PASS |
| | | VN | TN | -1.15 | -0.000611 | ± 2.5 | PASS |
| | | VH | TN | 0.6 | 0.000319 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.77 | -0.000404 | ± 2.5 | PASS |
| | | VN | TN | 1.58 | 0.000828 | ± 2.5 | PASS |
| | | VH | TN | -1.32 | -0.000692 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 1.46 | 0.000786 | ± 2.5 | PASS |
| | | VN | TN | 2.78 | 0.001497 | ± 2.5 | PASS |
| | | VH | TN | 4.28 | 0.002304 | ± 2.5 | PASS |
| | MCH | VL | TN | 2.47 | 0.001312 | ± 2.5 | PASS |
| | | VN | TN | -0.34 | -0.000181 | ± 2.5 | PASS |
| | | VH | TN | -1.39 | -0.000738 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.05 | -0.000026 | ± 2.5 | PASS |
| | | VN | TN | 3.11 | 0.001630 | ± 2.5 | PASS |
| | | VH | TN | 1.47 | 0.000771 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -1.86 | -0.001001 | ± 2.5 | PASS |
| | | VN | -20 | -1.17 | -0.000630 | ± 2.5 | PASS |
| | | VN | -10 | 4.01 | 0.002159 | ± 2.5 | PASS |
| | | VN | 0 | 0.7 | 0.000377 | ± 2.5 | PASS |
| | | VN | 10 | 2.52 | 0.001357 | ± 2.5 | PASS |
| | | VN | 20 | 0.57 | 0.000307 | ± 2.5 | PASS |
| | | VN | 30 | 3.52 | 0.001895 | ± 2.5 | PASS |
| | | VN | 40 | 1.97 | 0.001061 | ± 2.5 | PASS |
| | | VN | 50 | -1.07 | -0.000576 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.09 | 0.000579 | ± 2.5 | PASS |
| | | VN | -20 | -0.46 | -0.000244 | ± 2.5 | PASS |
| | | VN | -10 | 4.58 | 0.002433 | ± 2.5 | PASS |
| | | VN | 0 | 2.86 | 0.001519 | ± 2.5 | PASS |
| | | VN | 10 | -0.19 | -0.000101 | ± 2.5 | PASS |
| | | VN | 20 | 0.49 | 0.000260 | ± 2.5 | PASS |
| | | VN | 30 | -0.04 | -0.000021 | ± 2.5 | PASS |
| | | VN | 40 | -0.75 | -0.000398 | ± 2.5 | PASS |
| | | VN | 50 | 3.51 | 0.001865 | ± 2.5 | PASS |
| | HCH | VN | -30 | 3.79 | 0.001987 | ± 2.5 | PASS |
| | | VN | -20 | 1.69 | 0.000886 | ± 2.5 | PASS |
| | | VN | -10 | 2.89 | 0.001515 | ± 2.5 | PASS |
| | | VN | 0 | 4.36 | 0.002286 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 10 | 1.92 | 0.001007 | ± 2.5 | PASS |
| | | VN | 20 | -0.51 | -0.000267 | ± 2.5 | PASS |
| | | VN | 30 | 2.14 | 0.001122 | ± 2.5 | PASS |
| | | VN | 40 | 2.48 | 0.001300 | ± 2.5 | PASS |
| | | VN | 50 | -0.55 | -0.000288 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 3.38 | 0.001820 | ± 2.5 | PASS |
| | | VN | -20 | 4.34 | 0.002336 | ± 2.5 | PASS |
| | | VN | -10 | 4.84 | 0.002606 | ± 2.5 | PASS |
| | | VN | 0 | 0.44 | 0.000237 | ± 2.5 | PASS |
| | | VN | 10 | 2.04 | 0.001098 | ± 2.5 | PASS |
| | | VN | 20 | 2.17 | 0.001168 | ± 2.5 | PASS |
| | | VN | 30 | 3.08 | 0.001658 | ± 2.5 | PASS |
| | | VN | 40 | 0.03 | 0.000016 | ± 2.5 | PASS |
| | | VN | 50 | 4.74 | 0.002552 | ± 2.5 | PASS |
| | MCH | VN | -30 | 3.33 | 0.001769 | ± 2.5 | PASS |
| | | VN | -20 | 0.41 | 0.000218 | ± 2.5 | PASS |
| | | VN | -10 | 2.74 | 0.001456 | ± 2.5 | PASS |
| | | VN | 0 | 4.63 | 0.002459 | ± 2.5 | PASS |
| | | VN | 10 | 0.08 | 0.000042 | ± 2.5 | PASS |
| | | VN | 20 | 4.73 | 0.002513 | ± 2.5 | PASS |
| | | VN | 30 | -1.63 | -0.000866 | ± 2.5 | PASS |
| | | VN | 40 | 1.75 | 0.000930 | ± 2.5 | PASS |
| | | VN | 50 | 4.41 | 0.002343 | ± 2.5 | PASS |
| | HCH | VN | -30 | 3.5 | 0.001835 | ± 2.5 | PASS |
| | | VN | -20 | 0.35 | 0.000183 | ± 2.5 | PASS |
| | | VN | -10 | -1.52 | -0.000797 | ± 2.5 | PASS |
| | | VN | 0 | -1.8 | -0.000944 | ± 2.5 | PASS |
| | | VN | 10 | -1.15 | -0.000603 | ± 2.5 | PASS |
| | | VN | 20 | 4.49 | 0.002354 | ± 2.5 | PASS |
| | | VN | 30 | 2.5 | 0.001311 | ± 2.5 | PASS |
| | | VN | 40 | -0.2 | -0.000105 | ± 2.5 | PASS |
| | | VN | 50 | 2.81 | 0.001473 | ± 2.5 | PASS |

**Channel Bandwidth: 3.0 MHz**

| Channel Bandwidth: 3.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 0.88 | 0.000473 | ± 2.5 | PASS |
| | | VN | TN | 0.02 | 0.000011 | ± 2.5 | PASS |
| | | VH | TN | 2.12 | 0.001140 | ± 2.5 | PASS |
| | MCH | VL | TN | 2.23 | 0.001185 | ± 2.5 | PASS |
| | | VN | TN | 0.48 | 0.000255 | ± 2.5 | PASS |
| | | VH | TN | 4.26 | 0.002263 | ± 2.5 | PASS |
| | HCH | VL | TN | 4.9 | 0.002572 | ± 2.5 | PASS |
| | | VN | TN | -1.46 | -0.000766 | ± 2.5 | PASS |
| | | VH | TN | -1.95 | -0.001024 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 3.76 | 0.002022 | ± 2.5 | PASS |
| | | VN | TN | -0.62 | -0.000333 | ± 2.5 | PASS |
| | | VH | TN | 3.59 | 0.001930 | ± 2.5 | PASS |
| | | VL | TN | 4.93 | 0.002619 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | MCH | VN | TN | 2.55 | 0.001355 | ± 2.5 | PASS |
| | | VH | TN | 0.36 | 0.000191 | ± 2.5 | PASS |
| | HCH | VL | TN | 0.08 | 0.000042 | ± 2.5 | PASS |
| | | VN | TN | -0.34 | -0.000178 | ± 2.5 | PASS |
| | | VH | TN | 0.12 | 0.000063 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 3.58 | 0.001925 | ± 2.5 | PASS |
| | | VN | -20 | 3 | 0.001613 | ± 2.5 | PASS |
| | | VN | -10 | 4.93 | 0.002651 | ± 2.5 | PASS |
| | | VN | 0 | 2.08 | 0.001118 | ± 2.5 | PASS |
| | | VN | 10 | -0.79 | -0.000425 | ± 2.5 | PASS |
| | | VN | 20 | 4.57 | 0.002457 | ± 2.5 | PASS |
| | | VN | 30 | -1.05 | -0.000565 | ± 2.5 | PASS |
| | | VN | 40 | -0.79 | -0.000425 | ± 2.5 | PASS |
| | | VN | 50 | -0.73 | -0.000392 | ± 2.5 | PASS |
| | MCH | VN | -30 | -0.13 | -0.000069 | ± 2.5 | PASS |
| | | VN | -20 | 1.61 | 0.000856 | ± 2.5 | PASS |
| | | VN | -10 | 4.55 | 0.002420 | ± 2.5 | PASS |
| | | VN | 0 | 2.97 | 0.001580 | ± 2.5 | PASS |
| | | VN | 10 | 1.9 | 0.001011 | ± 2.5 | PASS |
| | | VN | 20 | 3.05 | 0.001622 | ± 2.5 | PASS |
| | | VN | 30 | -0.13 | -0.000069 | ± 2.5 | PASS |
| | | VN | 40 | 1.61 | 0.000856 | ± 2.5 | PASS |
| | | VN | 50 | 4.55 | 0.002420 | ± 2.5 | PASS |
| | HCH | VN | -30 | 4.46 | 0.002341 | ± 2.5 | PASS |
| | | VN | -20 | 2.79 | 0.001465 | ± 2.5 | PASS |
| | | VN | -10 | -1.34 | -0.000703 | ± 2.5 | PASS |
| | | VN | 0 | 3.39 | 0.001780 | ± 2.5 | PASS |
| | | VN | 10 | 0.21 | 0.000110 | ± 2.5 | PASS |
| | | VN | 20 | 2.38 | 0.001249 | ± 2.5 | PASS |
| | | VN | 30 | 3.58 | 0.001879 | ± 2.5 | PASS |
| | | VN | 40 | 2.84 | 0.001491 | ± 2.5 | PASS |
| | | VN | 50 | 3.53 | 0.001853 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 2.32 | 0.001247 | ± 2.5 | PASS |
| | | VN | -20 | -1.83 | -0.000984 | ± 2.5 | PASS |
| | | VN | -10 | 1.85 | 0.000995 | ± 2.5 | PASS |
| | | VN | 0 | 4.5 | 0.002419 | ± 2.5 | PASS |
| | | VN | 10 | -1.17 | -0.000629 | ± 2.5 | PASS |
| | | VN | 20 | -0.73 | -0.000392 | ± 2.5 | PASS |
| | | VN | 30 | -0.42 | -0.000226 | ± 2.5 | PASS |
| | | VN | 40 | 4.95 | 0.002661 | ± 2.5 | PASS |
| | | VN | 50 | 0.88 | 0.000473 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.25 | 0.000664 | ± 2.5 | PASS |
| | | VN | -20 | 2.91 | 0.001546 | ± 2.5 | PASS |
| | | VN | -10 | 4.43 | 0.002353 | ± 2.5 | PASS |
| | | VN | 0 | 4.38 | 0.002327 | ± 2.5 | PASS |
| | | VN | 10 | 2.13 | 0.001131 | ± 2.5 | PASS |
| | | VN | 20 | 1.38 | 0.000733 | ± 2.5 | PASS |
| | | VN | 30 | 0.14 | 0.000074 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 40 | -1.05 | -0.000558 | ± 2.5 | PASS |
| | | VN | 50 | -0.6 | -0.000319 | ± 2.5 | PASS |
| | HCH | VN | -30 | -1.96 | -0.001029 | ± 2.5 | PASS |
| | | VN | -20 | 0.37 | 0.000194 | ± 2.5 | PASS |
| | | VN | -10 | -1.15 | -0.000604 | ± 2.5 | PASS |
| | | VN | 0 | -1.85 | -0.000971 | ± 2.5 | PASS |
| | | VN | 10 | 4.16 | 0.002184 | ± 2.5 | PASS |
| | | VN | 20 | 4.81 | 0.002525 | ± 2.5 | PASS |
| | | VN | 30 | 2.53 | 0.001328 | ± 2.5 | PASS |
| | | VN | 40 | 3.04 | 0.001596 | ± 2.5 | PASS |
| | | VN | 50 | 4.5 | 0.002362 | ± 2.5 | PASS |

**Channel Bandwidth: 5 MHz**

| Channel Bandwidth: 5.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 3.99 | 0.005702 | ± 2.5 | PASS |
| | | VN | TN | 2.93 | 0.004188 | ± 2.5 | PASS |
| | | VH | TN | 1.16 | 0.001658 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.32 | 0.004693 | ± 2.5 | PASS |
| | | VN | TN | 4.23 | 0.005979 | ± 2.5 | PASS |
| | | VH | TN | -1.54 | -0.002177 | ± 2.5 | PASS |
| | HCH | VL | TN | 0.84 | 0.001174 | ± 2.5 | PASS |
| | | VN | TN | 2.3 | 0.003215 | ± 2.5 | PASS |
| | | VH | TN | 1.76 | 0.002461 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 1.1 | 0.001572 | ± 2.5 | PASS |
| | | VN | TN | 0.64 | 0.000915 | ± 2.5 | PASS |
| | | VH | TN | -1.76 | -0.002515 | ± 2.5 | PASS |
| | MCH | VL | TN | -1.71 | -0.002417 | ± 2.5 | PASS |
| | | VN | TN | 1.78 | 0.002516 | ± 2.5 | PASS |
| | | VH | TN | -1.1 | -0.001555 | ± 2.5 | PASS |
| | HCH | VL | TN | 0 | 0.000000 | ± 2.5 | PASS |
| | | VN | TN | -0.84 | -0.001174 | ± 2.5 | PASS |
| | | VH | TN | -1.31 | -0.001831 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -1.45 | -0.002072 | ± 2.5 | PASS |
| | | VN | -20 | -1.48 | -0.002115 | ± 2.5 | PASS |
| | | VN | -10 | 0.49 | 0.000700 | ± 2.5 | PASS |
| | | VN | 0 | 0.3 | 0.000429 | ± 2.5 | PASS |
| | | VN | 10 | 2.04 | 0.002916 | ± 2.5 | PASS |
| | | VN | 20 | 4.15 | 0.005931 | ± 2.5 | PASS |
| | | VN | 30 | 1.48 | 0.002115 | ± 2.5 | PASS |
| | | VN | 40 | -0.52 | -0.000743 | ± 2.5 | PASS |
| | | VN | 50 | 1.09 | 0.001558 | ± 2.5 | PASS |
| | MCH | VN | -30 | 0.64 | 0.000905 | ± 2.5 | PASS |
| | | VN | -20 | 1.84 | 0.002601 | ± 2.5 | PASS |
| | | VN | -10 | -0.19 | -0.000269 | ± 2.5 | PASS |
| | | VN | 0 | 2.44 | 0.003449 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 10 | -1.92 | -0.002714 | ± 2.5 | PASS |
| | | VN | 20 | 0.44 | 0.000622 | ± 2.5 | PASS |
| | | VN | 30 | -0.46 | -0.000650 | ± 2.5 | PASS |
| | | VN | 40 | 2.29 | 0.003237 | ± 2.5 | PASS |
| | | VN | 50 | 1.22 | 0.001724 | ± 2.5 | PASS |
| | HCH | VN | -30 | 0.31 | 0.000433 | ± 2.5 | PASS |
| | | VN | -20 | 0.9 | 0.001258 | ± 2.5 | PASS |
| | | VN | -10 | -1.63 | -0.002279 | ± 2.5 | PASS |
| | | VN | 0 | 3.62 | 0.005061 | ± 2.5 | PASS |
| | | VN | 10 | 2.39 | 0.003341 | ± 2.5 | PASS |
| | | VN | 20 | 0.79 | 0.001104 | ± 2.5 | PASS |
| | | VN | 30 | 1.21 | 0.001692 | ± 2.5 | PASS |
| | | VN | 40 | 3.88 | 0.005424 | ± 2.5 | PASS |
| | | VN | 50 | -1.31 | -0.001831 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 2.67 | 0.003816 | ± 2.5 | PASS |
| | | VN | -20 | 0.95 | 0.001358 | ± 2.5 | PASS |
| | | VN | -10 | 0.71 | 0.001015 | ± 2.5 | PASS |
| | | VN | 0 | -0.05 | -0.000071 | ± 2.5 | PASS |
| | | VN | 10 | -1.64 | -0.002344 | ± 2.5 | PASS |
| | | VN | 20 | 0.26 | 0.000372 | ± 2.5 | PASS |
| | | VN | 30 | 0 | 0.000000 | ± 2.5 | PASS |
| | | VN | 40 | -0.99 | -0.001415 | ± 2.5 | PASS |
| | | VN | 50 | 4.08 | 0.005831 | ± 2.5 | PASS |
| | MCH | VN | -30 | -0.01 | -0.000014 | ± 2.5 | PASS |
| | | VN | -20 | -1.87 | -0.002643 | ± 2.5 | PASS |
| | | VN | -10 | 2.75 | 0.003887 | ± 2.5 | PASS |
| | | VN | 0 | 3.25 | 0.004594 | ± 2.5 | PASS |
| | | VN | 10 | -0.07 | -0.000099 | ± 2.5 | PASS |
| | | VN | 20 | 3.11 | 0.004396 | ± 2.5 | PASS |
| | | VN | 30 | -1.04 | -0.001470 | ± 2.5 | PASS |
| | | VN | 40 | 2.55 | 0.003604 | ± 2.5 | PASS |
| | | VN | 50 | 1.9 | 0.002686 | ± 2.5 | PASS |
| | HCH | VN | -30 | 3.54 | 0.004949 | ± 2.5 | PASS |
| | | VN | -20 | 0.47 | 0.000657 | ± 2.5 | PASS |
| | | VN | -10 | 1.99 | 0.002782 | ± 2.5 | PASS |
| | | VN | 0 | 2.25 | 0.003146 | ± 2.5 | PASS |
| | | VN | 10 | 1.06 | 0.001482 | ± 2.5 | PASS |
| | | VN | 20 | -1.8 | -0.002516 | ± 2.5 | PASS |
| | | VN | 30 | -0.52 | -0.000727 | ± 2.5 | PASS |
| | | VN | 40 | -0.68 | -0.000951 | ± 2.5 | PASS |
| | | VN | 50 | 0.19 | 0.000266 | ± 2.5 | PASS |

**Channel Bandwidth: 10MHz**

| Channel Bandwidth: 10MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | -0.37 | -0.000528 | ± 2.5 | PASS |
| | | VN | TN | 3.26 | 0.004654 | ± 2.5 | PASS |
| | | VH | TN | 4.07 | 0.005810 | ± 2.5 | PASS |
| | | VL | TN | 3.5 | 0.004947 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | MCH | VN | TN | 0.12 | 0.000170 | ± 2.5 | PASS |
| | | VH | TN | 4.02 | 0.005682 | ± 2.5 | PASS |
| | HCH | VL | TN | 0.71 | 0.000994 | ± 2.5 | PASS |
| | | VN | TN | 1.67 | 0.002337 | ± 2.5 | PASS |
| | | VH | TN | 4.24 | 0.005934 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 0.89 | 0.001271 | ± 2.5 | PASS |
| | | VN | TN | 4.71 | 0.006724 | ± 2.5 | PASS |
| | | VH | TN | 1.71 | 0.002441 | ± 2.5 | PASS |
| | MCH | VL | TN | -0.55 | -0.000777 | ± 2.5 | PASS |
| | | VN | TN | 1.76 | 0.002488 | ± 2.5 | PASS |
| | | VH | TN | 1.53 | 0.002163 | ± 2.5 | PASS |
| | HCH | VL | TN | 4.63 | 0.006480 | ± 2.5 | PASS |
| | | VN | TN | 3.22 | 0.004507 | ± 2.5 | PASS |
| | | VH | TN | 0.43 | 0.000602 | ± 2.5 | PASS |

Temperature

| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|---|
| QPSK | LCH | VN | -30 | 0.9 | 0.001285 | ± 2.5 | PASS |
| | | VN | -20 | -0.97 | -0.001385 | ± 2.5 | PASS |
| | | VN | -10 | 3.98 | 0.005682 | ± 2.5 | PASS |
| | | VN | 0 | 2.6 | 0.003712 | ± 2.5 | PASS |
| | | VN | 10 | -0.48 | -0.000685 | ± 2.5 | PASS |
| | | VN | 20 | -1.96 | -0.002798 | ± 2.5 | PASS |
| | | VN | 30 | 0.15 | 0.000214 | ± 2.5 | PASS |
| | | VN | 40 | 2.28 | 0.003255 | ± 2.5 | PASS |
| | | VN | 50 | 3.68 | 0.005253 | ± 2.5 | PASS |
| | MCH | VN | -30 | 4.22 | 0.005965 | ± 2.5 | PASS |
| | | VN | -20 | 3.77 | 0.005329 | ± 2.5 | PASS |
| | | VN | -10 | 1.53 | 0.002163 | ± 2.5 | PASS |
| | | VN | 0 | 3.29 | 0.004650 | ± 2.5 | PASS |
| | | VN | 10 | 2.73 | 0.003859 | ± 2.5 | PASS |
| | | VN | 20 | 1.91 | 0.002700 | ± 2.5 | PASS |
| | | VN | 30 | 4.69 | 0.006629 | ± 2.5 | PASS |
| | | VN | 40 | -1.07 | -0.001512 | ± 2.5 | PASS |
| | | VN | 50 | 4.5 | 0.006360 | ± 2.5 | PASS |
| | HCH | VN | -30 | 4.8 | 0.006718 | ± 2.5 | PASS |
| | | VN | -20 | 0.7 | 0.000980 | ± 2.5 | PASS |
| | | VN | -10 | -1.92 | -0.002687 | ± 2.5 | PASS |
| | | VN | 0 | 3.35 | 0.004689 | ± 2.5 | PASS |
| | | VN | 10 | 1.16 | 0.001624 | ± 2.5 | PASS |
| | | VN | 20 | 0.2 | 0.000280 | ± 2.5 | PASS |
| | | VN | 30 | -1.04 | -0.001456 | ± 2.5 | PASS |
| | | VN | 40 | -0.2 | -0.000280 | ± 2.5 | PASS |
| | | VN | 50 | 4.31 | 0.006032 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 3.86 | 0.005510 | ± 2.5 | PASS |
| | | VN | -20 | -0.48 | -0.000685 | ± 2.5 | PASS |
| | | VN | -10 | 4.57 | 0.006524 | ± 2.5 | PASS |
| | | VN | 0 | 2.14 | 0.003055 | ± 2.5 | PASS |
| | | VN | 10 | 0.83 | 0.001185 | ± 2.5 | PASS |
| | | VN | 20 | 3.17 | 0.004525 | ± 2.5 | PASS |
| | | VN | 30 | 1.3 | 0.001856 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 40 | 3.79 | 0.005410 | ± 2.5 | PASS |
| | | VN | 50 | 2.59 | 0.003697 | ± 2.5 | PASS |
| | MCH | VN | -30 | 0.86 | 0.001216 | ± 2.5 | PASS |
| | | VN | -20 | 0.55 | 0.000777 | ± 2.5 | PASS |
| | | VN | -10 | 0 | 0.000000 | ± 2.5 | PASS |
| | | VN | 0 | -0.36 | -0.000509 | ± 2.5 | PASS |
| | | VN | 10 | 0.64 | 0.000905 | ± 2.5 | PASS |
| | | VN | 20 | 4.68 | 0.006615 | ± 2.5 | PASS |
| | | VN | 30 | 0.78 | 0.001102 | ± 2.5 | PASS |
| | | VN | 40 | -0.33 | -0.000466 | ± 2.5 | PASS |
| | | VN | 50 | 0.67 | 0.000947 | ± 2.5 | PASS |
| | HCH | VN | -30 | 3.11 | 0.004353 | ± 2.5 | PASS |
| | | VN | -20 | 1.12 | 0.001568 | ± 2.5 | PASS |
| | | VN | -10 | -0.95 | -0.001330 | ± 2.5 | PASS |
| | | VN | 0 | 4.47 | 0.006256 | ± 2.5 | PASS |
| | | VN | 10 | 2.59 | 0.003625 | ± 2.5 | PASS |
| | | VN | 20 | -1.76 | -0.002463 | ± 2.5 | PASS |
| | | VN | 30 | -0.97 | -0.001358 | ± 2.5 | PASS |
| | | VN | 40 | 0.81 | 0.001134 | ± 2.5 | PASS |
| | | VN | 50 | 3.86 | 0.005510 | ± 2.5 | PASS |

**LTE BAND 17**

**Channel Bandwidth: 5 MHz**

| Channel Bandwidth: 5MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 2.25 | 0.003207 | ± 2.5 | PASS |
| | | VN | TN | 0.68 | 0.000969 | ± 2.5 | PASS |
| | | VH | TN | 1.77 | 0.002523 | ± 2.5 | PASS |
| | MCH | VL | TN | -0.96 | -0.001357 | ± 2.5 | PASS |
| | | VN | TN | -1.21 | -0.001710 | ± 2.5 | PASS |
| | | VH | TN | 0.76 | 0.001074 | ± 2.5 | PASS |
| | HCH | VL | TN | 1.47 | 0.002060 | ± 2.5 | PASS |
| | | VN | TN | 1.84 | 0.002579 | ± 2.5 | PASS |
| | | VH | TN | -1.16 | -0.001626 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 0.35 | 0.000499 | ± 2.5 | PASS |
| | | VN | TN | -1.32 | -0.001882 | ± 2.5 | PASS |
| | | VH | TN | 0.54 | 0.000770 | ± 2.5 | PASS |
| | MCH | VL | TN | 4.81 | 0.006799 | ± 2.5 | PASS |
| | | VN | TN | -0.63 | -0.000890 | ± 2.5 | PASS |
| | | VH | TN | 3.87 | 0.005470 | ± 2.5 | PASS |
| | HCH | VL | TN | 3.52 | 0.004933 | ± 2.5 | PASS |
| | | VN | TN | 3.75 | 0.005256 | ± 2.5 | PASS |
| | | VH | TN | 3.14 | 0.004401 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -0.25 | -0.000356 | ± 2.5 | PASS |
| | | VN | -20 | 4.45 | 0.006344 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | -10 | 3.35 | 0.004775 | ± 2.5 | PASS |
| | | VN | 0 | 4.14 | 0.005902 | ± 2.5 | PASS |
| | | VN | 10 | 0.51 | 0.000727 | ± 2.5 | PASS |
| | | VN | 20 | 4.95 | 0.007056 | ± 2.5 | PASS |
| | | VN | 30 | 4.71 | 0.006714 | ± 2.5 | PASS |
| | | VN | 40 | -0.4 | -0.000570 | ± 2.5 | PASS |
| | | VN | 50 | -1.77 | -0.002523 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.79 | 0.002530 | ± 2.5 | PASS |
| | | VN | -20 | -1.26 | -0.001781 | ± 2.5 | PASS |
| | | VN | -10 | -0.66 | -0.000933 | ± 2.5 | PASS |
| | | VN | 0 | -0.45 | -0.000636 | ± 2.5 | PASS |
| | | VN | 10 | 1.9 | 0.002686 | ± 2.5 | PASS |
| | | VN | 20 | 0.52 | 0.000735 | ± 2.5 | PASS |
| | | VN | 30 | 3.97 | 0.005611 | ± 2.5 | PASS |
| | | VN | 40 | -1.95 | -0.002756 | ± 2.5 | PASS |
| | | VN | 50 | -1.57 | -0.002219 | ± 2.5 | PASS |
| | HCH | VN | -30 | -1.2 | -0.001682 | ± 2.5 | PASS |
| | | VN | -20 | 3.09 | 0.004331 | ± 2.5 | PASS |
| | | VN | -10 | 4.47 | 0.006265 | ± 2.5 | PASS |
| | | VN | 0 | -1.53 | -0.002144 | ± 2.5 | PASS |
| | | VN | 10 | 3.54 | 0.004961 | ± 2.5 | PASS |
| | | VN | 20 | -1.56 | -0.002186 | ± 2.5 | PASS |
| | | VN | 30 | 0.43 | 0.000603 | ± 2.5 | PASS |
| | | VN | 40 | 3.15 | 0.004415 | ± 2.5 | PASS |
| | | VN | 50 | 0.38 | 0.000533 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -1.51 | -0.002153 | ± 2.5 | PASS |
| | | VN | -20 | 2.92 | 0.004163 | ± 2.5 | PASS |
| | | VN | -10 | -1.51 | -0.002153 | ± 2.5 | PASS |
| | | VN | 0 | 3.28 | 0.004676 | ± 2.5 | PASS |
| | | VN | 10 | 0.77 | 0.001098 | ± 2.5 | PASS |
| | | VN | 20 | -0.91 | -0.001297 | ± 2.5 | PASS |
| | | VN | 30 | 0.39 | 0.000556 | ± 2.5 | PASS |
| | | VN | 40 | 1.72 | 0.002452 | ± 2.5 | PASS |
| | | VN | 50 | 4.79 | 0.006828 | ± 2.5 | PASS |
| | MCH | VN | -30 | -1.51 | -0.002134 | ± 2.5 | PASS |
| | | VN | -20 | -0.45 | -0.000636 | ± 2.5 | PASS |
| | | VN | -10 | -0.62 | -0.000876 | ± 2.5 | PASS |
| | | VN | 0 | -1.42 | -0.002007 | ± 2.5 | PASS |
| | | VN | 10 | 1.34 | 0.001894 | ± 2.5 | PASS |
| | | VN | 20 | -0.08 | -0.000113 | ± 2.5 | PASS |
| | | VN | 30 | 1.12 | 0.001583 | ± 2.5 | PASS |
| | | VN | 40 | 4.94 | 0.006982 | ± 2.5 | PASS |
| | | VN | 50 | 3.37 | 0.004763 | ± 2.5 | PASS |
| | HCH | VN | -30 | 4.37 | 0.006125 | ± 2.5 | PASS |
| | | VN | -20 | -0.49 | -0.000687 | ± 2.5 | PASS |
| | | VN | -10 | 1.09 | 0.001528 | ± 2.5 | PASS |
| | | VN | 0 | -0.18 | -0.000252 | ± 2.5 | PASS |
| | | VN | 10 | -1.75 | -0.002453 | ± 2.5 | PASS |
| | | VN | 20 | 2.1 | 0.002943 | ± 2.5 | PASS |
| | | VN | 30 | 0.7 | 0.000981 | ± 2.5 | PASS |
| | | VN | 40 | 2.36 | 0.003308 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 50 | -0.68 | -0.000953 | ± 2.5 | PASS |

**Channel Bandwidth: 10 MHz**

| Channel Bandwidth: 10.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 0.4 | 0.000568 | ± 2.5 | PASS |
| | | VN | TN | 1.48 | 0.002102 | ± 2.5 | PASS |
| | | VH | TN | -0.75 | -0.001065 | ± 2.5 | PASS |
| | MCH | VL | TN | -1.08 | -0.001527 | ± 2.5 | PASS |
| | | VN | TN | -0.89 | -0.001258 | ± 2.5 | PASS |
| | | VH | TN | 1.14 | 0.001611 | ± 2.5 | PASS |
| | HCH | VL | TN | -1.69 | -0.002377 | ± 2.5 | PASS |
| | | VN | TN | 2.21 | 0.003108 | ± 2.5 | PASS |
| | | VH | TN | 1.72 | 0.002419 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 3.75 | 0.005327 | ± 2.5 | PASS |
| | | VN | TN | -1.24 | -0.001761 | ± 2.5 | PASS |
| | | VH | TN | -0.97 | -0.001378 | ± 2.5 | PASS |
| | MCH | VL | TN | 0.05 | 0.000071 | ± 2.5 | PASS |
| | | VN | TN | -0.41 | -0.000580 | ± 2.5 | PASS |
| | | VH | TN | -1.79 | -0.002530 | ± 2.5 | PASS |
| | HCH | VL | TN | 3.67 | 0.005162 | ± 2.5 | PASS |
| | | VN | TN | -0.15 | -0.000211 | ± 2.5 | PASS |
| | | VH | TN | 3.07 | 0.004318 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 2.82 | 0.004006 | ± 2.5 | PASS |
| | | VN | -20 | -1.24 | -0.001761 | ± 2.5 | PASS |
| | | VN | -10 | 4.44 | 0.006307 | ± 2.5 | PASS |
| | | VN | 0 | 2.95 | 0.004190 | ± 2.5 | PASS |
| | | VN | 10 | 3.27 | 0.004645 | ± 2.5 | PASS |
| | | VN | 20 | 3.08 | 0.004375 | ± 2.5 | PASS |
| | | VN | 30 | 4.44 | 0.006307 | ± 2.5 | PASS |
| | | VN | 40 | -0.86 | -0.001222 | ± 2.5 | PASS |
| | | VN | 50 | 0.97 | 0.001378 | ± 2.5 | PASS |
| | MCH | VN | -30 | 2.47 | 0.003491 | ± 2.5 | PASS |
| | | VN | -20 | -1.9 | -0.002686 | ± 2.5 | PASS |
| | | VN | -10 | 0.77 | 0.001088 | ± 2.5 | PASS |
| | | VN | 0 | -1.85 | -0.002615 | ± 2.5 | PASS |
| | | VN | 10 | 2.57 | 0.003633 | ± 2.5 | PASS |
| | | VN | 20 | 2.53 | 0.003576 | ± 2.5 | PASS |
| | | VN | 30 | 0.48 | 0.000678 | ± 2.5 | PASS |
| | | VN | 40 | -1.1 | -0.001555 | ± 2.5 | PASS |
| | | VN | 50 | -1.82 | -0.002572 | ± 2.5 | PASS |
| | HCH | VN | -30 | -1.98 | -0.002785 | ± 2.5 | PASS |
| | | VN | -20 | 0.69 | 0.000970 | ± 2.5 | PASS |
| | | VN | -10 | 3.18 | 0.004473 | ± 2.5 | PASS |
| | | VN | 0 | -0.37 | -0.000520 | ± 2.5 | PASS |
| | | VN | 10 | 4.01 | 0.005640 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 20 | 4.73 | 0.006653 | ± 2.5 | PASS |
| | | VN | 30 | 2.13 | 0.002996 | ± 2.5 | PASS |
| | | VN | 40 | 0.64 | 0.000900 | ± 2.5 | PASS |
| | | VN | 50 | -0.54 | -0.000759 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 4.01 | 0.005696 | ± 2.5 | PASS |
| | | VN | -20 | -1.89 | -0.002685 | ± 2.5 | PASS |
| | | VN | -10 | -0.74 | -0.001051 | ± 2.5 | PASS |
| | | VN | 0 | 4.72 | 0.006705 | ± 2.5 | PASS |
| | | VN | 10 | 1.78 | 0.002528 | ± 2.5 | PASS |
| | | VN | 20 | 4.39 | 0.006236 | ± 2.5 | PASS |
| | | VN | 30 | 2.22 | 0.003153 | ± 2.5 | PASS |
| | | VN | 40 | -0.17 | -0.000241 | ± 2.5 | PASS |
| | | VN | 50 | 2.07 | 0.002940 | ± 2.5 | PASS |
| | MCH | VN | -30 | 4.64 | 0.006558 | ± 2.5 | PASS |
| | | VN | -20 | -1.47 | -0.002078 | ± 2.5 | PASS |
| | | VN | -10 | -0.5 | -0.000707 | ± 2.5 | PASS |
| | | VN | 0 | 3.25 | 0.004594 | ± 2.5 | PASS |
| | | VN | 10 | 1.64 | 0.002318 | ± 2.5 | PASS |
| | | VN | 20 | 2.84 | 0.004014 | ± 2.5 | PASS |
| | | VN | 30 | 1.15 | 0.001625 | ± 2.5 | PASS |
| | | VN | 40 | 1.4 | 0.001979 | ± 2.5 | PASS |
| | | VN | 50 | -1.16 | -0.001640 | ± 2.5 | PASS |
| | HCH | VN | -30 | 0.54 | 0.000759 | ± 2.5 | PASS |
| | | VN | -20 | -0.39 | -0.000549 | ± 2.5 | PASS |
| | | VN | -10 | 3.82 | 0.005373 | ± 2.5 | PASS |
| | | VN | 0 | 2.31 | 0.003249 | ± 2.5 | PASS |
| | | VN | 10 | 0.02 | 0.000028 | ± 2.5 | PASS |
| | | VN | 20 | 1.72 | 0.002419 | ± 2.5 | PASS |
| | | VN | 30 | 0.49 | 0.000689 | ± 2.5 | PASS |
| | | VN | 40 | 2.11 | 0.002968 | ± 2.5 | PASS |
| | | VN | 50 | 0.48 | 0.000675 | ± 2.5 | PASS |

**Band 41**
**Channel Bandwidth: 5 MHz**

| Channel Bandwidth: 5.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 3.99 | 0.005702 | ± 2.5 | PASS |
| | | VN | TN | 2.93 | 0.004188 | ± 2.5 | PASS |
| | | VH | TN | 1.16 | 0.001658 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.32 | 0.004693 | ± 2.5 | PASS |
| | | VN | TN | 4.23 | 0.005979 | ± 2.5 | PASS |
| | | VH | TN | -1.54 | -0.002177 | ± 2.5 | PASS |
| | HCH | VL | TN | 0.84 | 0.001174 | ± 2.5 | PASS |
| | | VN | TN | 2.3 | 0.003215 | ± 2.5 | PASS |
| | | VH | TN | 1.76 | 0.002461 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 1.1 | 0.001572 | ± 2.5 | PASS |
| | | VN | TN | 0.64 | 0.000915 | ± 2.5 | PASS |
| | | VH | TN | -1.76 | -0.002515 | ± 2.5 | PASS |
| | | VL | TN | -1.71 | -0.002417 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | MCH | VN | TN | 1.78 | 0.002516 | ± 2.5 | PASS |
| | | VH | TN | -1.1 | -0.001555 | ± 2.5 | PASS |
| | HCH | VL | TN | 0 | 0.000000 | ± 2.5 | PASS |
| | | VN | TN | -0.84 | -0.001174 | ± 2.5 | PASS |
| | | VH | TN | -1.31 | -0.001831 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -1.45 | -0.002072 | ± 2.5 | PASS |
| | | VN | -20 | -1.48 | -0.002115 | ± 2.5 | PASS |
| | | VN | -10 | 0.49 | 0.000700 | ± 2.5 | PASS |
| | | VN | 0 | 0.3 | 0.000429 | ± 2.5 | PASS |
| | | VN | 10 | 2.04 | 0.002916 | ± 2.5 | PASS |
| | | VN | 20 | 4.15 | 0.005931 | ± 2.5 | PASS |
| | | VN | 30 | 1.48 | 0.002115 | ± 2.5 | PASS |
| | | VN | 40 | -0.52 | -0.000743 | ± 2.5 | PASS |
| | | VN | 50 | 1.09 | 0.001558 | ± 2.5 | PASS |
| | MCH | VN | -30 | 0.64 | 0.000905 | ± 2.5 | PASS |
| | | VN | -20 | 1.84 | 0.002601 | ± 2.5 | PASS |
| | | VN | -10 | -0.19 | -0.000269 | ± 2.5 | PASS |
| | | VN | 0 | 2.44 | 0.003449 | ± 2.5 | PASS |
| | | VN | 10 | -1.92 | -0.002714 | ± 2.5 | PASS |
| | | VN | 20 | 0.44 | 0.000622 | ± 2.5 | PASS |
| | | VN | 30 | -0.46 | -0.000650 | ± 2.5 | PASS |
| | | VN | 40 | 2.29 | 0.003237 | ± 2.5 | PASS |
| | | VN | 50 | 1.22 | 0.001724 | ± 2.5 | PASS |
| | HCH | VN | -30 | 0.31 | 0.000433 | ± 2.5 | PASS |
| | | VN | -20 | 0.9 | 0.001258 | ± 2.5 | PASS |
| | | VN | -10 | -1.63 | -0.002279 | ± 2.5 | PASS |
| | | VN | 0 | 3.62 | 0.005061 | ± 2.5 | PASS |
| | | VN | 10 | 2.39 | 0.003341 | ± 2.5 | PASS |
| | | VN | 20 | 0.79 | 0.001104 | ± 2.5 | PASS |
| | | VN | 30 | 1.21 | 0.001692 | ± 2.5 | PASS |
| | | VN | 40 | 3.88 | 0.005424 | ± 2.5 | PASS |
| | | VN | 50 | -1.31 | -0.001831 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 2.67 | 0.003816 | ± 2.5 | PASS |
| | | VN | -20 | 0.95 | 0.001358 | ± 2.5 | PASS |
| | | VN | -10 | 0.71 | 0.001015 | ± 2.5 | PASS |
| | | VN | 0 | -0.05 | -0.000071 | ± 2.5 | PASS |
| | | VN | 10 | -1.64 | -0.002344 | ± 2.5 | PASS |
| | | VN | 20 | 0.26 | 0.000372 | ± 2.5 | PASS |
| | | VN | 30 | 0 | 0.000000 | ± 2.5 | PASS |
| | | VN | 40 | -0.99 | -0.001415 | ± 2.5 | PASS |
| | | VN | 50 | 4.08 | 0.005831 | ± 2.5 | PASS |
| | MCH | VN | -30 | -0.01 | -0.000014 | ± 2.5 | PASS |
| | | VN | -20 | -1.87 | -0.002643 | ± 2.5 | PASS |
| | | VN | -10 | 2.75 | 0.003887 | ± 2.5 | PASS |
| | | VN | 0 | 3.25 | 0.004594 | ± 2.5 | PASS |
| | | VN | 10 | -0.07 | -0.000099 | ± 2.5 | PASS |
| | | VN | 20 | 3.11 | 0.004396 | ± 2.5 | PASS |
| | | VN | 30 | -1.04 | -0.001470 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 40 | 2.55 | 0.003604 | ± 2.5 | PASS |
| | | VN | 50 | 1.9 | 0.002686 | ± 2.5 | PASS |
| | HCH | VN | -30 | 3.54 | 0.004949 | ± 2.5 | PASS |
| | | VN | -20 | 0.47 | 0.000657 | ± 2.5 | PASS |
| | | VN | -10 | 1.99 | 0.002782 | ± 2.5 | PASS |
| | | VN | 0 | 2.25 | 0.003146 | ± 2.5 | PASS |
| | | VN | 10 | 1.06 | 0.001482 | ± 2.5 | PASS |
| | | VN | 20 | -1.8 | -0.002516 | ± 2.5 | PASS |
| | | VN | 30 | -0.52 | -0.000727 | ± 2.5 | PASS |
| | | VN | 40 | -0.68 | -0.000951 | ± 2.5 | PASS |
| | | VN | 50 | 0.19 | 0.000266 | ± 2.5 | PASS |

**Channel Bandwidth: 10MHz**

| Channel Bandwidth: 10MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | -0.37 | -0.000528 | ± 2.5 | PASS |
| | | VN | TN | 3.26 | 0.004654 | ± 2.5 | PASS |
| | | VH | TN | 4.07 | 0.005810 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.5 | 0.004947 | ± 2.5 | PASS |
| | | VN | TN | 0.12 | 0.000170 | ± 2.5 | PASS |
| | | VH | TN | 4.02 | 0.005682 | ± 2.5 | PASS |
| | HCH | VL | TN | 0.71 | 0.000994 | ± 2.5 | PASS |
| | | VN | TN | 1.67 | 0.002337 | ± 2.5 | PASS |
| | | VH | TN | 4.24 | 0.005934 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 0.89 | 0.001271 | ± 2.5 | PASS |
| | | VN | TN | 4.71 | 0.006724 | ± 2.5 | PASS |
| | | VH | TN | 1.71 | 0.002441 | ± 2.5 | PASS |
| | MCH | VL | TN | -0.55 | -0.000777 | ± 2.5 | PASS |
| | | VN | TN | 1.76 | 0.002488 | ± 2.5 | PASS |
| | | VH | TN | 1.53 | 0.002163 | ± 2.5 | PASS |
| | HCH | VL | TN | 4.63 | 0.006480 | ± 2.5 | PASS |
| | | VN | TN | 3.22 | 0.004507 | ± 2.5 | PASS |
| | | VH | TN | 0.43 | 0.000602 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 0.9 | 0.001285 | ± 2.5 | PASS |
| | | VN | -20 | -0.97 | -0.001385 | ± 2.5 | PASS |
| | | VN | -10 | 3.98 | 0.005682 | ± 2.5 | PASS |
| | | VN | 0 | 2.6 | 0.003712 | ± 2.5 | PASS |
| | | VN | 10 | -0.48 | -0.000685 | ± 2.5 | PASS |
| | | VN | 20 | -1.96 | -0.002798 | ± 2.5 | PASS |
| | | VN | 30 | 0.15 | 0.000214 | ± 2.5 | PASS |
| | | VN | 40 | 2.28 | 0.003255 | ± 2.5 | PASS |
| | | VN | 50 | 3.68 | 0.005253 | ± 2.5 | PASS |
| | MCH | VN | -30 | 4.22 | 0.005965 | ± 2.5 | PASS |
| | | VN | -20 | 3.77 | 0.005329 | ± 2.5 | PASS |
| | | VN | -10 | 1.53 | 0.002163 | ± 2.5 | PASS |
| | | VN | 0 | 3.29 | 0.004650 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 10 | 2.73 | 0.003859 | ± 2.5 | PASS |
| | | VN | 20 | 1.91 | 0.002700 | ± 2.5 | PASS |
| | | VN | 30 | 4.69 | 0.006629 | ± 2.5 | PASS |
| | | VN | 40 | -1.07 | -0.001512 | ± 2.5 | PASS |
| | | VN | 50 | 4.5 | 0.006360 | ± 2.5 | PASS |
| | HCH | VN | -30 | 4.8 | 0.006718 | ± 2.5 | PASS |
| | | VN | -20 | 0.7 | 0.000980 | ± 2.5 | PASS |
| | | VN | -10 | -1.92 | -0.002687 | ± 2.5 | PASS |
| | | VN | 0 | 3.35 | 0.004689 | ± 2.5 | PASS |
| | | VN | 10 | 1.16 | 0.001624 | ± 2.5 | PASS |
| | | VN | 20 | 0.2 | 0.000280 | ± 2.5 | PASS |
| | | VN | 30 | -1.04 | -0.001456 | ± 2.5 | PASS |
| | | VN | 40 | -0.2 | -0.000280 | ± 2.5 | PASS |
| | | VN | 50 | 4.31 | 0.006032 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 3.86 | 0.005510 | ± 2.5 | PASS |
| | | VN | -20 | -0.48 | -0.000685 | ± 2.5 | PASS |
| | | VN | -10 | 4.57 | 0.006524 | ± 2.5 | PASS |
| | | VN | 0 | 2.14 | 0.003055 | ± 2.5 | PASS |
| | | VN | 10 | 0.83 | 0.001185 | ± 2.5 | PASS |
| | | VN | 20 | 3.17 | 0.004525 | ± 2.5 | PASS |
| | | VN | 30 | 1.3 | 0.001856 | ± 2.5 | PASS |
| | | VN | 40 | 3.79 | 0.005410 | ± 2.5 | PASS |
| | | VN | 50 | 2.59 | 0.003697 | ± 2.5 | PASS |
| | MCH | VN | -30 | 0.86 | 0.001216 | ± 2.5 | PASS |
| | | VN | -20 | 0.55 | 0.000777 | ± 2.5 | PASS |
| | | VN | -10 | 0 | 0.000000 | ± 2.5 | PASS |
| | | VN | 0 | -0.36 | -0.000509 | ± 2.5 | PASS |
| | | VN | 10 | 0.64 | 0.000905 | ± 2.5 | PASS |
| | | VN | 20 | 4.68 | 0.006615 | ± 2.5 | PASS |
| | | VN | 30 | 0.78 | 0.001102 | ± 2.5 | PASS |
| | | VN | 40 | -0.33 | -0.000466 | ± 2.5 | PASS |
| | | VN | 50 | 0.67 | 0.000947 | ± 2.5 | PASS |
| | HCH | VN | -30 | 3.11 | 0.004353 | ± 2.5 | PASS |
| | | VN | -20 | 1.12 | 0.001568 | ± 2.5 | PASS |
| | | VN | -10 | -0.95 | -0.001330 | ± 2.5 | PASS |
| | | VN | 0 | 4.47 | 0.006256 | ± 2.5 | PASS |
| | | VN | 10 | 2.59 | 0.003625 | ± 2.5 | PASS |
| | | VN | 20 | -1.76 | -0.002463 | ± 2.5 | PASS |
| | | VN | 30 | -0.97 | -0.001358 | ± 2.5 | PASS |
| | | VN | 40 | 0.81 | 0.001134 | ± 2.5 | PASS |
| | | VN | 50 | 3.86 | 0.005510 | ± 2.5 | PASS |

**Channel Bandwidth: 15 MHz**

| Channel Bandwidth: 15MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 2.25 | 0.003207 | ± 2.5 | PASS |
| | | VN | TN | 0.68 | 0.000969 | ± 2.5 | PASS |
| | | VH | TN | 1.77 | 0.002523 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | MCH | VL | TN | -0.96 | -0.001357 | ± 2.5 | PASS |
| | | VN | TN | -1.21 | -0.001710 | ± 2.5 | PASS |
| | | VH | TN | 0.76 | 0.001074 | ± 2.5 | PASS |
| | HCH | VL | TN | 1.47 | 0.002060 | ± 2.5 | PASS |
| | | VN | TN | 1.84 | 0.002579 | ± 2.5 | PASS |
| | | VH | TN | -1.16 | -0.001626 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 0.35 | 0.000499 | ± 2.5 | PASS |
| | | VN | TN | -1.32 | -0.001882 | ± 2.5 | PASS |
| | | VH | TN | 0.54 | 0.000770 | ± 2.5 | PASS |
| | MCH | VL | TN | 4.81 | 0.006799 | ± 2.5 | PASS |
| | | VN | TN | -0.63 | -0.000890 | ± 2.5 | PASS |
| | | VH | TN | 3.87 | 0.005470 | ± 2.5 | PASS |
| | HCH | VL | TN | 3.52 | 0.004933 | ± 2.5 | PASS |
| | | VN | TN | 3.75 | 0.005256 | ± 2.5 | PASS |
| | | VH | TN | 3.14 | 0.004401 | ± 2.5 | PASS |

Temperature

| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|---|
| QPSK | LCH | VN | -30 | -0.25 | -0.000356 | ± 2.5 | PASS |
| | | VN | -20 | 4.45 | 0.006344 | ± 2.5 | PASS |
| | | VN | -10 | 3.35 | 0.004775 | ± 2.5 | PASS |
| | | VN | 0 | 4.14 | 0.005902 | ± 2.5 | PASS |
| | | VN | 10 | 0.51 | 0.000727 | ± 2.5 | PASS |
| | | VN | 20 | 4.95 | 0.007056 | ± 2.5 | PASS |
| | | VN | 30 | 4.71 | 0.006714 | ± 2.5 | PASS |
| | | VN | 40 | -0.4 | -0.000570 | ± 2.5 | PASS |
| | | VN | 50 | -1.77 | -0.002523 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.79 | 0.002530 | ± 2.5 | PASS |
| | | VN | -20 | -1.26 | -0.001781 | ± 2.5 | PASS |
| | | VN | -10 | -0.66 | -0.000933 | ± 2.5 | PASS |
| | | VN | 0 | -0.45 | -0.000636 | ± 2.5 | PASS |
| | | VN | 10 | 1.9 | 0.002686 | ± 2.5 | PASS |
| | | VN | 20 | 0.52 | 0.000735 | ± 2.5 | PASS |
| | | VN | 30 | 3.97 | 0.005611 | ± 2.5 | PASS |
| | | VN | 40 | -1.95 | -0.002756 | ± 2.5 | PASS |
| | | VN | 50 | -1.57 | -0.002219 | ± 2.5 | PASS |
| | HCH | VN | -30 | -1.2 | -0.001682 | ± 2.5 | PASS |
| | | VN | -20 | 3.09 | 0.004331 | ± 2.5 | PASS |
| | | VN | -10 | 4.47 | 0.006265 | ± 2.5 | PASS |
| | | VN | 0 | -1.53 | -0.002144 | ± 2.5 | PASS |
| | | VN | 10 | 3.54 | 0.004961 | ± 2.5 | PASS |
| | | VN | 20 | -1.56 | -0.002186 | ± 2.5 | PASS |
| | | VN | 30 | 0.43 | 0.000603 | ± 2.5 | PASS |
| | | VN | 40 | 3.15 | 0.004415 | ± 2.5 | PASS |
| | | VN | 50 | 0.38 | 0.000533 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -1.51 | -0.002153 | ± 2.5 | PASS |
| | | VN | -20 | 2.92 | 0.004163 | ± 2.5 | PASS |
| | | VN | -10 | -1.51 | -0.002153 | ± 2.5 | PASS |
| | | VN | 0 | 3.28 | 0.004676 | ± 2.5 | PASS |
| | | VN | 10 | 0.77 | 0.001098 | ± 2.5 | PASS |
| | | VN | 20 | -0.91 | -0.001297 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 30 | 0.39 | 0.000556 | ± 2.5 | PASS |
| | | VN | 40 | 1.72 | 0.002452 | ± 2.5 | PASS |
| | | VN | 50 | 4.79 | 0.006828 | ± 2.5 | PASS |
| | MCH | VN | -30 | -1.51 | -0.002134 | ± 2.5 | PASS |
| | | VN | -20 | -0.45 | -0.000636 | ± 2.5 | PASS |
| | | VN | -10 | -0.62 | -0.000876 | ± 2.5 | PASS |
| | | VN | 0 | -1.42 | -0.002007 | ± 2.5 | PASS |
| | | VN | 10 | 1.34 | 0.001894 | ± 2.5 | PASS |
| | | VN | 20 | -0.08 | -0.000113 | ± 2.5 | PASS |
| | | VN | 30 | 1.12 | 0.001583 | ± 2.5 | PASS |
| | | VN | 40 | 4.94 | 0.006982 | ± 2.5 | PASS |
| | | VN | 50 | 3.37 | 0.004763 | ± 2.5 | PASS |
| | HCH | VN | -30 | 4.37 | 0.006125 | ± 2.5 | PASS |
| | | VN | -20 | -0.49 | -0.000687 | ± 2.5 | PASS |
| | | VN | -10 | 1.09 | 0.001528 | ± 2.5 | PASS |
| | | VN | 0 | -0.18 | -0.000252 | ± 2.5 | PASS |
| | | VN | 10 | -1.75 | -0.002453 | ± 2.5 | PASS |
| | | VN | 20 | 2.1 | 0.002943 | ± 2.5 | PASS |
| | | VN | 30 | 0.7 | 0.000981 | ± 2.5 | PASS |
| | | VN | 40 | 2.36 | 0.003308 | ± 2.5 | PASS |
| | | VN | 50 | -0.68 | -0.000953 | ± 2.5 | PASS |

**Channel Bandwidth: 20 MHz**

| Channel Bandwidth: 20.0MHz | | | | | | | |
|---|---|---|---|---|---|---|---|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 0.4 | 0.000568 | ± 2.5 | PASS |
| | | VN | TN | 1.48 | 0.002102 | ± 2.5 | PASS |
| | | VH | TN | -0.75 | -0.001065 | ± 2.5 | PASS |
| | MCH | VL | TN | -1.08 | -0.001527 | ± 2.5 | PASS |
| | | VN | TN | -0.89 | -0.001258 | ± 2.5 | PASS |
| | | VH | TN | 1.14 | 0.001611 | ± 2.5 | PASS |
| | HCH | VL | TN | -1.69 | -0.002377 | ± 2.5 | PASS |
| | | VN | TN | 2.21 | 0.003108 | ± 2.5 | PASS |
| | | VH | TN | 1.72 | 0.002419 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 3.75 | 0.005327 | ± 2.5 | PASS |
| | | VN | TN | -1.24 | -0.001761 | ± 2.5 | PASS |
| | | VH | TN | -0.97 | -0.001378 | ± 2.5 | PASS |
| | MCH | VL | TN | 0.05 | 0.000071 | ± 2.5 | PASS |
| | | VN | TN | -0.41 | -0.000580 | ± 2.5 | PASS |
| | | VH | TN | -1.79 | -0.002530 | ± 2.5 | PASS |
| | HCH | VL | TN | 3.67 | 0.005162 | ± 2.5 | PASS |
| | | VN | TN | -0.15 | -0.000211 | ± 2.5 | PASS |
| | | VH | TN | 3.07 | 0.004318 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 2.82 | 0.004006 | ± 2.5 | PASS |
| | | VN | -20 | -1.24 | -0.001761 | ± 2.5 | PASS |
| | | VN | -10 | 4.44 | 0.006307 | ± 2.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | VN | 0 | 2.95 | 0.004190 | ± 2.5 | PASS |
| | | VN | 10 | 3.27 | 0.004645 | ± 2.5 | PASS |
| | | VN | 20 | 3.08 | 0.004375 | ± 2.5 | PASS |
| | | VN | 30 | 4.44 | 0.006307 | ± 2.5 | PASS |
| | | VN | 40 | -0.86 | -0.001222 | ± 2.5 | PASS |
| | | VN | 50 | 0.97 | 0.001378 | ± 2.5 | PASS |
| | MCH | VN | -30 | 2.47 | 0.003491 | ± 2.5 | PASS |
| | | VN | -20 | -1.9 | -0.002686 | ± 2.5 | PASS |
| | | VN | -10 | 0.77 | 0.001088 | ± 2.5 | PASS |
| | | VN | 0 | -1.85 | -0.002615 | ± 2.5 | PASS |
| | | VN | 10 | 2.57 | 0.003633 | ± 2.5 | PASS |
| | | VN | 20 | 2.53 | 0.003576 | ± 2.5 | PASS |
| | | VN | 30 | 0.48 | 0.000678 | ± 2.5 | PASS |
| | | VN | 40 | -1.1 | -0.001555 | ± 2.5 | PASS |
| | | VN | 50 | -1.82 | -0.002572 | ± 2.5 | PASS |
| | HCH | VN | -30 | -1.98 | -0.002785 | ± 2.5 | PASS |
| | | VN | -20 | 0.69 | 0.000970 | ± 2.5 | PASS |
| | | VN | -10 | 3.18 | 0.004473 | ± 2.5 | PASS |
| | | VN | 0 | -0.37 | -0.000520 | ± 2.5 | PASS |
| | | VN | 10 | 4.01 | 0.005640 | ± 2.5 | PASS |
| | | VN | 20 | 4.73 | 0.006653 | ± 2.5 | PASS |
| | | VN | 30 | 2.13 | 0.002996 | ± 2.5 | PASS |
| | | VN | 40 | 0.64 | 0.000900 | ± 2.5 | PASS |
| | | VN | 50 | -0.54 | -0.000759 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 4.01 | 0.005696 | ± 2.5 | PASS |
| | | VN | -20 | -1.89 | -0.002685 | ± 2.5 | PASS |
| | | VN | -10 | -0.74 | -0.001051 | ± 2.5 | PASS |
| | | VN | 0 | 4.72 | 0.006705 | ± 2.5 | PASS |
| | | VN | 10 | 1.78 | 0.002528 | ± 2.5 | PASS |
| | | VN | 20 | 4.39 | 0.006236 | ± 2.5 | PASS |
| | | VN | 30 | 2.22 | 0.003153 | ± 2.5 | PASS |
| | | VN | 40 | -0.17 | -0.000241 | ± 2.5 | PASS |
| | | VN | 50 | 2.07 | 0.002940 | ± 2.5 | PASS |
| | MCH | VN | -30 | 4.64 | 0.006558 | ± 2.5 | PASS |
| | | VN | -20 | -1.47 | -0.002078 | ± 2.5 | PASS |
| | | VN | -10 | -0.5 | -0.000707 | ± 2.5 | PASS |
| | | VN | 0 | 3.25 | 0.004594 | ± 2.5 | PASS |
| | | VN | 10 | 1.64 | 0.002318 | ± 2.5 | PASS |
| | | VN | 20 | 2.84 | 0.004014 | ± 2.5 | PASS |
| | | VN | 30 | 1.15 | 0.001625 | ± 2.5 | PASS |
| | | VN | 40 | 1.4 | 0.001979 | ± 2.5 | PASS |
| | | VN | 50 | -1.16 | -0.001640 | ± 2.5 | PASS |
| | HCH | VN | -30 | 0.54 | 0.000759 | ± 2.5 | PASS |
| | | VN | -20 | -0.39 | -0.000549 | ± 2.5 | PASS |
| | | VN | -10 | 3.82 | 0.005373 | ± 2.5 | PASS |
| | | VN | 0 | 2.31 | 0.003249 | ± 2.5 | PASS |
| | | VN | 10 | 0.02 | 0.000028 | ± 2.5 | PASS |
| | | VN | 20 | 1.72 | 0.002419 | ± 2.5 | PASS |
| | | VN | 30 | 0.49 | 0.000689 | ± 2.5 | PASS |
| | | VN | 40 | 2.11 | 0.002968 | ± 2.5 | PASS |
| | | VN | 50 | 0.48 | 0.000675 | ± 2.5 | PASS |