



Band66_20MHz_QPSK_132322_1RB#0



Band66_20MHz_QPSK_132322_1RB#0



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Band66_20MHz_QPSK_132322_1RB#0



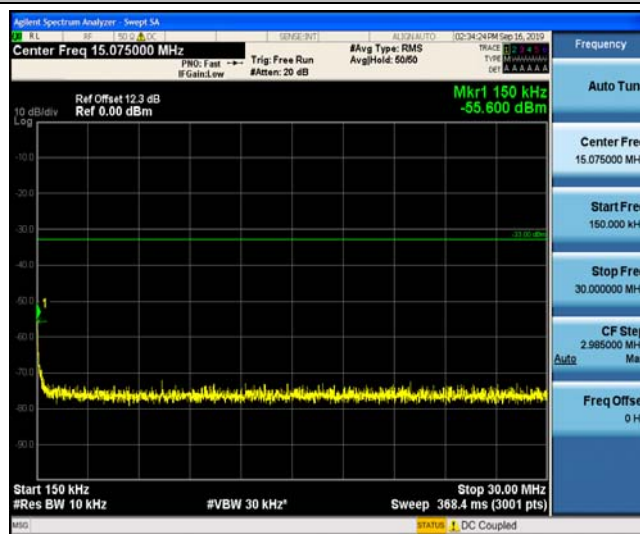
Band66_20MHz_QPSK_132322_1RB#0



Band66_20MHz_QPSK_132572_1RB#0



Band66_20MHz_QPSK_132572_1RB#0



Band66_20MHz_QPSK_132572_1RB#0



Band66_20MHz_QPSK_132572_1RB#0



Band66_20MHz_QPSK_132572_1RB#0



Band66_20MHz_QPSK_132572_1RB#0



Band66_20MHz_16QAM_132072_1RB#0



Band66_20MHz_16QAM_132072_1RB#0



Band66_20MHz_16QAM_132072_1RB#0



Band66_20MHz_16QAM_132072_1RB#0



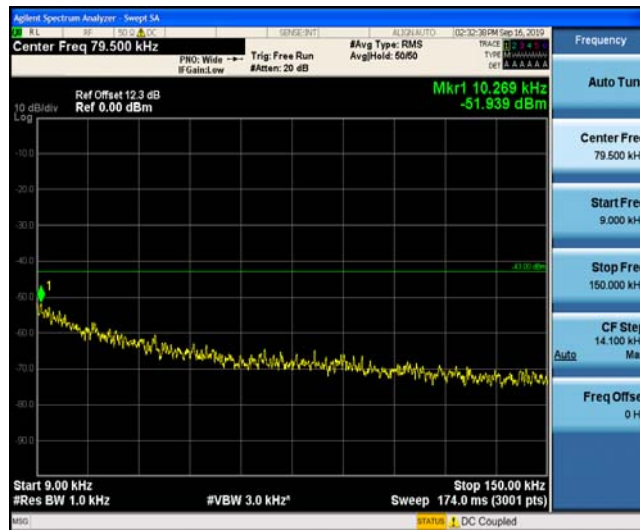
Band66_20MHz_16QAM_132072_1RB#0



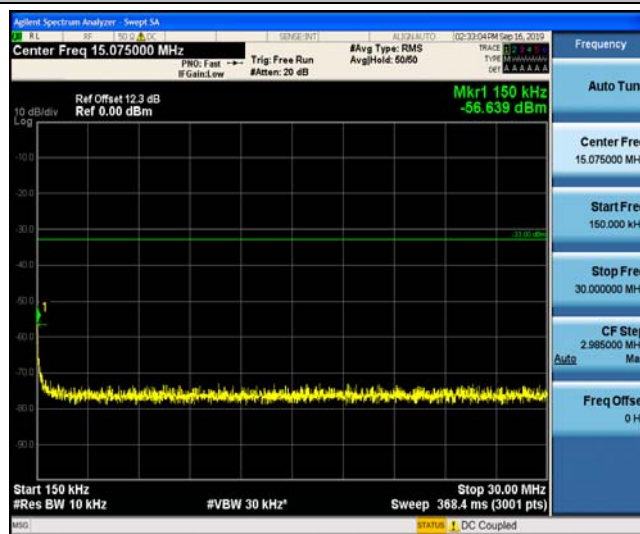
Band66_20MHz_16QAM_132072_1RB#0



Band66_20MHz_16QAM_132322_1RB#0



Band66_20MHz_16QAM_132322_1RB#0



Band66_20MHz_16QAM_132322_1RB#0



Band66_20MHz_16QAM_132322_1RB#0



Band66_20MHz_16QAM_132322_1RB#0



Band66_20MHz_16QAM_132322_1RB#0



Band66_20MHz_16QAM_132572_1RB#0



Band66_20MHz_16QAM_132572_1RB#0



Band66_20MHz_16QAM_132572_1RB#0



Band66_20MHz_16QAM_132572_1RB#0



Band66_20MHz_16QAM_132572_1RB#0



Band66_20MHz_16QAM_132572_1RB#0



Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

| Channel Bandwidth: 1.4 MHz | | | | | | | |
|----------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 2.36 | 0.001380 | ± 2.5 | PASS |
| | | VN | TN | 2.77 | 0.001619 | ± 2.5 | PASS |
| | | VH | TN | 4.14 | 0.002420 | ± 2.5 | PASS |
| | MCH | VL | TN | 2.24 | 0.001284 | ± 2.5 | PASS |
| | | VN | TN | 2.54 | 0.001456 | ± 2.5 | PASS |
| | | VH | TN | 3.94 | 0.002258 | ± 2.5 | PASS |
| | HCH | VL | TN | 0.31 | 0.000174 | ± 2.5 | PASS |
| | | VN | TN | 0.5 | 0.000281 | ± 2.5 | PASS |
| | | VH | TN | -0.89 | -0.000500 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | -1.53 | -0.000894 | ± 2.5 | PASS |
| | | VN | TN | 3.49 | 0.002040 | ± 2.5 | PASS |
| | | VH | TN | 3.5 | 0.002046 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.96 | 0.002269 | ± 2.5 | PASS |
| | | VN | TN | 0.44 | 0.000252 | ± 2.5 | PASS |
| | | VH | TN | 1.93 | 0.001106 | ± 2.5 | PASS |
| | HCH | VL | TN | 1.9 | 0.001068 | ± 2.5 | PASS |
| | | VN | TN | -0.42 | -0.000236 | ± 2.5 | PASS |
| | | VH | TN | 2.52 | 0.001416 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -0.1 | -0.000058 | ± 2.5 | PASS |
| | | VN | -20 | 0.09 | 0.000053 | ± 2.5 | PASS |
| | | VN | -10 | 2.28 | 0.001333 | ± 2.5 | PASS |
| | | VN | 0 | 3.39 | 0.001982 | ± 2.5 | PASS |
| | | VN | 10 | -0.53 | -0.000310 | ± 2.5 | PASS |
| | | VN | 20 | -0.44 | -0.000257 | ± 2.5 | PASS |
| | | VN | 30 | -0.07 | -0.000041 | ± 2.5 | PASS |
| | | VN | 40 | 2.82 | 0.001648 | ± 2.5 | PASS |
| | | VN | 50 | 2.88 | 0.001684 | ± 2.5 | PASS |
| | MCH | VN | -30 | -1.11 | -0.000636 | ± 2.5 | PASS |
| | | VN | -20 | -0.77 | -0.000441 | ± 2.5 | PASS |

| | | | | | | | | | |
|-----|-----|-------|-----|-------|-----------|-------|-----------|-------|------|
| | | VN | -10 | 2.66 | 0.001524 | ± 2.5 | PASS | | |
| | | VN | 0 | -1.28 | -0.000734 | ± 2.5 | PASS | | |
| | | VN | 10 | -0.81 | -0.000464 | ± 2.5 | PASS | | |
| | | VN | 20 | -1.79 | -0.001026 | ± 2.5 | PASS | | |
| | | VN | 30 | -1.35 | -0.000774 | ± 2.5 | PASS | | |
| | | VN | 40 | 4.41 | 0.002527 | ± 2.5 | PASS | | |
| | | VN | 50 | 0.64 | 0.000367 | ± 2.5 | PASS | | |
| | HCH | VN | -30 | 2.26 | 0.001270 | ± 2.5 | PASS | | |
| | | VN | -20 | -1.06 | -0.000596 | ± 2.5 | PASS | | |
| | | VN | -10 | 3.08 | 0.001731 | ± 2.5 | PASS | | |
| | | VN | 0 | 2.34 | 0.001315 | ± 2.5 | PASS | | |
| | | VN | 10 | 1.65 | 0.000927 | ± 2.5 | PASS | | |
| | | VN | 20 | 1.05 | 0.000590 | ± 2.5 | PASS | | |
| | | VN | 30 | -1.36 | -0.000764 | ± 2.5 | PASS | | |
| | | VN | 40 | 0.93 | 0.000523 | ± 2.5 | PASS | | |
| | | VN | 50 | 3.99 | 0.002242 | ± 2.5 | PASS | | |
| | | 16QAM | LCH | VN | -30 | -0.06 | -0.000035 | ± 2.5 | PASS |
| | | | | VN | -20 | 4.1 | 0.002397 | ± 2.5 | PASS |
| VN | -10 | | | 2.33 | 0.001362 | ± 2.5 | PASS | | |
| VN | 0 | | | 4.02 | 0.002350 | ± 2.5 | PASS | | |
| VN | 10 | | | 1.04 | 0.000608 | ± 2.5 | PASS | | |
| VN | 20 | | | 3.56 | 0.002081 | ± 2.5 | PASS | | |
| VN | 30 | | | 3.25 | 0.001900 | ± 2.5 | PASS | | |
| VN | 40 | | | 3.02 | 0.001765 | ± 2.5 | PASS | | |
| VN | 50 | | | 2.59 | 0.001514 | ± 2.5 | PASS | | |
| MCH | VN | | -30 | -1.96 | -0.001123 | ± 2.5 | PASS | | |
| | VN | | -20 | 4.85 | 0.002779 | ± 2.5 | PASS | | |
| | VN | | -10 | -0.28 | -0.000160 | ± 2.5 | PASS | | |
| | VN | | 0 | -1.94 | -0.001112 | ± 2.5 | PASS | | |
| | VN | | 10 | -0.5 | -0.000287 | ± 2.5 | PASS | | |
| | VN | | 20 | 1.3 | 0.000745 | ± 2.5 | PASS | | |
| | VN | | 30 | 1.74 | 0.000997 | ± 2.5 | PASS | | |
| | VN | | 40 | 4.8 | 0.002751 | ± 2.5 | PASS | | |
| | VN | | 50 | 4.27 | 0.002447 | ± 2.5 | PASS | | |
| HCH | VN | | -30 | 4.31 | 0.002422 | ± 2.5 | PASS | | |
| | VN | | -20 | -1.97 | -0.001107 | ± 2.5 | PASS | | |
| | VN | | -10 | 0.77 | 0.000433 | ± 2.5 | PASS | | |
| | VN | | 0 | -1.67 | -0.000939 | ± 2.5 | PASS | | |
| | VN | | 10 | 0.75 | 0.000422 | ± 2.5 | PASS | | |
| | VN | | 20 | -0.79 | -0.000444 | ± 2.5 | PASS | | |
| | VN | | 30 | 2.55 | 0.001433 | ± 2.5 | PASS | | |

| | | | | | | | |
|--|--|----|----|------|-----------|-------|------|
| | | VN | 40 | 0.23 | 0.000129 | ± 2.5 | PASS |
| | | VN | 50 | -0.8 | -0.000450 | ± 2.5 | PASS |

Channel Bandwidth: 3 MHz

| Channel Bandwidth: 3 MHz+ | | | | | | | |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 2.16 | 0.001262 | ± 2.5 | PASS |
| | | VN | TN | -0.32 | -0.000187 | ± 2.5 | PASS |
| | | VH | TN | 3.75 | 0.002191 | ± 2.5 | PASS |
| | MCH | VL | TN | 1.99 | 0.001140 | ± 2.5 | PASS |
| | | VN | TN | 5 | 0.002865 | ± 2.5 | PASS |
| | | VH | TN | 2.84 | 0.001628 | ± 2.5 | PASS |
| | HCH | VL | TN | 2.64 | 0.001484 | ± 2.5 | PASS |
| | | VN | TN | 2.93 | 0.001647 | ± 2.5 | PASS |
| | | VH | TN | -1.51 | -0.000849 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 1.61 | 0.000941 | ± 2.5 | PASS |
| | | VN | TN | 1.56 | 0.000911 | ± 2.5 | PASS |
| | | VH | TN | -1.06 | -0.000619 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.52 | 0.002017 | ± 2.5 | PASS |
| | | VN | TN | 4.01 | 0.002298 | ± 2.5 | PASS |
| | | VH | TN | 1.09 | 0.000625 | ± 2.5 | PASS |
| | HCH | VL | TN | 3.13 | 0.001759 | ± 2.5 | PASS |
| | | VN | TN | -1.12 | -0.000629 | ± 2.5 | PASS |
| | | VH | TN | -0.82 | -0.000461 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 1.79 | 0.001046 | ± 2.5 | PASS |
| | | VN | -20 | 4.26 | 0.002489 | ± 2.5 | PASS |
| | | VN | -10 | -1.51 | -0.000882 | ± 2.5 | PASS |
| | | VN | 0 | 2.15 | 0.001256 | ± 2.5 | PASS |
| | | VN | 10 | 4.99 | 0.002916 | ± 2.5 | PASS |
| | | VN | 20 | -1.01 | -0.000590 | ± 2.5 | PASS |
| | | VN | 30 | 2.86 | 0.001671 | ± 2.5 | PASS |
| | | VN | 40 | 3.85 | 0.002249 | ± 2.5 | PASS |
| | | VN | 50 | 1.73 | 0.001011 | ± 2.5 | PASS |
| | MCH | VN | -30 | 3.36 | 0.001926 | ± 2.5 | PASS |
| | | VN | -20 | 4.49 | 0.002573 | ± 2.5 | PASS |
| | | VN | -10 | -0.37 | -0.000212 | ± 2.5 | PASS |

| | | | | | | | | | |
|-----|-----|------|-----|-------|-----------|-------|-----------|-------|------|
| | | VN | 0 | 4.6 | 0.002636 | ± 2.5 | PASS | | |
| | | VN | 10 | -1.04 | -0.000596 | ± 2.5 | PASS | | |
| | | VN | 20 | 4.91 | 0.002814 | ± 2.5 | PASS | | |
| | | VN | 30 | 0.99 | 0.000567 | ± 2.5 | PASS | | |
| | | VN | 40 | 2.59 | 0.001484 | ± 2.5 | PASS | | |
| | | VN | 50 | 3.85 | 0.002206 | ± 2.5 | PASS | | |
| | HCH | VN | -30 | 3.09 | 0.001737 | ± 2.5 | PASS | | |
| | | VN | -20 | 1.59 | 0.000894 | ± 2.5 | PASS | | |
| | | VN | -10 | 1.97 | 0.001107 | ± 2.5 | PASS | | |
| | | VN | 0 | 2.23 | 0.001253 | ± 2.5 | PASS | | |
| | | VN | 10 | -0.39 | -0.000219 | ± 2.5 | PASS | | |
| | | VN | 20 | 3.07 | 0.001725 | ± 2.5 | PASS | | |
| | | VN | 30 | 0.78 | 0.000438 | ± 2.5 | PASS | | |
| | | VN | 40 | -0.07 | -0.000039 | ± 2.5 | PASS | | |
| | | VN | 50 | 3.06 | 0.001720 | ± 2.5 | PASS | | |
| | | QPSK | LCH | VN | -30 | -1.51 | -0.000882 | ± 2.5 | PASS |
| | | | | VN | -20 | 2.49 | 0.001455 | ± 2.5 | PASS |
| | | | | VN | -10 | -1.95 | -0.001139 | ± 2.5 | PASS |
| VN | 0 | | | 1.59 | 0.000929 | ± 2.5 | PASS | | |
| VN | 10 | | | 3 | 0.001753 | ± 2.5 | PASS | | |
| VN | 20 | | | -0.53 | -0.000310 | ± 2.5 | PASS | | |
| VN | 30 | | | 1.12 | 0.000654 | ± 2.5 | PASS | | |
| VN | 40 | | | 2.75 | 0.001607 | ± 2.5 | PASS | | |
| VN | 50 | | | 3.9 | 0.002279 | ± 2.5 | PASS | | |
| MCH | VN | | -30 | 2.45 | 0.001404 | ± 2.5 | PASS | | |
| | VN | | -20 | 4.94 | 0.002831 | ± 2.5 | PASS | | |
| | VN | | -10 | 2.08 | 0.001192 | ± 2.5 | PASS | | |
| | VN | | 0 | 3.45 | 0.001977 | ± 2.5 | PASS | | |
| | VN | | 10 | 4.82 | 0.002762 | ± 2.5 | PASS | | |
| | VN | | 20 | -0.62 | -0.000355 | ± 2.5 | PASS | | |
| | VN | | 30 | -1.12 | -0.000642 | ± 2.5 | PASS | | |
| | VN | | 40 | -1.54 | -0.000883 | ± 2.5 | PASS | | |
| | VN | | 50 | 1.72 | 0.000986 | ± 2.5 | PASS | | |
| HCH | VN | | -30 | 3.07 | 0.001725 | ± 2.5 | PASS | | |
| | VN | | -20 | -0.94 | -0.000528 | ± 2.5 | PASS | | |
| | VN | | -10 | 2.93 | 0.001647 | ± 2.5 | PASS | | |
| | VN | | 0 | 4.76 | 0.002675 | ± 2.5 | PASS | | |
| | VN | | 10 | 2.01 | 0.001130 | ± 2.5 | PASS | | |
| | VN | | 20 | 2.93 | 0.001647 | ± 2.5 | PASS | | |
| | VN | | 30 | -1.56 | -0.000877 | ± 2.5 | PASS | | |
| | VN | | 40 | 4.37 | 0.002456 | ± 2.5 | PASS | | |

| | | | | | | | |
|--|--|----|----|-----|----------|-------|------|
| | | VN | 50 | 3.8 | 0.002136 | ± 2.5 | PASS |
|--|--|----|----|-----|----------|-------|------|

Channel Bandwidth: 5 MHz

| Channel Bandwidth: 5 MHz | | | | | | | |
|--------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 2.19 | 0.001279 | ± 2.5 | PASS |
| | | VN | TN | 0.94 | 0.000549 | ± 2.5 | PASS |
| | | VH | TN | 3.12 | 0.001822 | ± 2.5 | PASS |
| | MCH | VL | TN | 1.41 | 0.000808 | ± 2.5 | PASS |
| | | VN | TN | 1.47 | 0.000842 | ± 2.5 | PASS |
| | | VH | TN | -1.19 | -0.000682 | ± 2.5 | PASS |
| | HCH | VL | TN | 4.26 | 0.002395 | ± 2.5 | PASS |
| | | VN | TN | 1.46 | 0.000821 | ± 2.5 | PASS |
| | | VH | TN | 3.55 | 0.001996 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 2.29 | 0.001337 | ± 2.5 | PASS |
| | | VN | TN | -1.1 | -0.000642 | ± 2.5 | PASS |
| | | VH | TN | 4.53 | 0.002645 | ± 2.5 | PASS |
| | MCH | VL | TN | 2.55 | 0.001461 | ± 2.5 | PASS |
| | | VN | TN | 1.79 | 0.001026 | ± 2.5 | PASS |
| | | VH | TN | 3.8 | 0.002178 | ± 2.5 | PASS |
| | HCH | VL | TN | 2.77 | 0.001557 | ± 2.5 | PASS |
| | | VN | TN | -0.34 | -0.000191 | ± 2.5 | PASS |
| | | VH | TN | 3.25 | 0.001827 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -1.51 | -0.000882 | ± 2.5 | PASS |
| | | VN | -20 | 2.15 | 0.001255 | ± 2.5 | PASS |
| | | VN | -10 | 0.84 | 0.000491 | ± 2.5 | PASS |
| | | VN | 0 | 2.12 | 0.001238 | ± 2.5 | PASS |
| | | VN | 10 | 0.55 | 0.000321 | ± 2.5 | PASS |
| | | VN | 20 | 1.34 | 0.000782 | ± 2.5 | PASS |
| | | VN | 30 | 1.22 | 0.000712 | ± 2.5 | PASS |
| | | VN | 40 | 3.26 | 0.001904 | ± 2.5 | PASS |
| | | VN | 50 | -1.53 | -0.000893 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.67 | 0.000957 | ± 2.5 | PASS |
| | | VN | -20 | 0.44 | 0.000252 | ± 2.5 | PASS |
| | | VN | -10 | 4.09 | 0.002344 | ± 2.5 | PASS |
| | | VN | 0 | -1.38 | -0.000791 | ± 2.5 | PASS |

| | | | | | | | |
|-----|-----|-------|-----|-------|-----------|-------|-----------|
| | | VN | 10 | 4.91 | 0.002814 | ± 2.5 | PASS |
| | | VN | 20 | -0.88 | -0.000504 | ± 2.5 | PASS |
| | | VN | 30 | 1.44 | 0.000825 | ± 2.5 | PASS |
| | | VN | 40 | 0.71 | 0.000407 | ± 2.5 | PASS |
| | | VN | 50 | 4.76 | 0.002728 | ± 2.5 | PASS |
| | HCH | VN | -30 | 0.85 | 0.000478 | ± 2.5 | PASS |
| | | VN | -20 | 0.06 | 0.000034 | ± 2.5 | PASS |
| | | VN | -10 | 1.84 | 0.001035 | ± 2.5 | PASS |
| | | VN | 0 | -1.69 | -0.000950 | ± 2.5 | PASS |
| | | VN | 10 | 4.35 | 0.002446 | ± 2.5 | PASS |
| | | VN | 20 | 3.1 | 0.001743 | ± 2.5 | PASS |
| | | VN | 30 | 4.96 | 0.002789 | ± 2.5 | PASS |
| | | VN | 40 | 3.8 | 0.002137 | ± 2.5 | PASS |
| | | VN | 50 | 2.52 | 0.001417 | ± 2.5 | PASS |
| | | 16QAM | LCH | VN | -30 | -0.5 | -0.000292 |
| VN | -20 | | | 1.69 | 0.000987 | ± 2.5 | PASS |
| VN | -10 | | | -0.43 | -0.000251 | ± 2.5 | PASS |
| VN | 0 | | | 1.43 | 0.000835 | ± 2.5 | PASS |
| VN | 10 | | | -0.93 | -0.000543 | ± 2.5 | PASS |
| VN | 20 | | | -1.27 | -0.000742 | ± 2.5 | PASS |
| VN | 30 | | | 4.35 | 0.002540 | ± 2.5 | PASS |
| VN | 40 | | | 4.07 | 0.002377 | ± 2.5 | PASS |
| VN | 50 | | | 1.1 | 0.000642 | ± 2.5 | PASS |
| MCH | VN | | -30 | 0.95 | 0.000544 | ± 2.5 | PASS |
| | VN | | -20 | 4.19 | 0.002401 | ± 2.5 | PASS |
| | VN | | -10 | 2.03 | 0.001163 | ± 2.5 | PASS |
| | VN | | 0 | -1.31 | -0.000751 | ± 2.5 | PASS |
| | VN | | 10 | 0.37 | 0.000212 | ± 2.5 | PASS |
| | VN | | 20 | 2.81 | 0.001610 | ± 2.5 | PASS |
| | VN | | 30 | 4.05 | 0.002321 | ± 2.5 | PASS |
| | VN | | 40 | 0.9 | 0.000516 | ± 2.5 | PASS |
| | VN | | 50 | 3.63 | 0.002080 | ± 2.5 | PASS |
| HCH | VN | | -30 | 0.6 | 0.000337 | ± 2.5 | PASS |
| | VN | | -20 | 2.44 | 0.001372 | ± 2.5 | PASS |
| | VN | | -10 | 0.27 | 0.000152 | ± 2.5 | PASS |
| | VN | | 0 | 4.16 | 0.002339 | ± 2.5 | PASS |
| | VN | | 10 | 0.95 | 0.000534 | ± 2.5 | PASS |
| | VN | | 20 | 3.15 | 0.001771 | ± 2.5 | PASS |
| | VN | | 30 | 3.28 | 0.001844 | ± 2.5 | PASS |
| | VN | | 40 | 4.73 | 0.002660 | ± 2.5 | PASS |
| | VN | | 50 | 0.87 | 0.000489 | ± 2.5 | PASS |

Channel Bandwidth: 10 MHz

| Channel Bandwidth: 10 MHz | | | | | | | |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 3.26 | 0.001901 | ± 2.5 | PASS |
| | | VN | TN | 4.32 | 0.002519 | ± 2.5 | PASS |
| | | VH | TN | -1.13 | -0.000659 | ± 2.5 | PASS |
| | MCH | VL | TN | -0.58 | -0.000332 | ± 2.5 | PASS |
| | | VN | TN | -1.09 | -0.000625 | ± 2.5 | PASS |
| | | VH | TN | 1.6 | 0.000917 | ± 2.5 | PASS |
| | HCH | VL | TN | 4.79 | 0.002695 | ± 2.5 | PASS |
| | | VN | TN | 0.51 | 0.000287 | ± 2.5 | PASS |
| | | VH | TN | -0.29 | -0.000163 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 3.17 | 0.001848 | ± 2.5 | PASS |
| | | VN | TN | 4.66 | 0.002717 | ± 2.5 | PASS |
| | | VH | TN | 3.83 | 0.002233 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.94 | 0.002258 | ± 2.5 | PASS |
| | | VN | TN | 4.91 | 0.002814 | ± 2.5 | PASS |
| | | VH | TN | -1.4 | -0.000802 | ± 2.5 | PASS |
| | HCH | VL | TN | 2.57 | 0.001446 | ± 2.5 | PASS |
| | | VN | TN | -0.53 | -0.000298 | ± 2.5 | PASS |
| | | VH | TN | 1.54 | 0.000866 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 16QAM | LCH | VN | -30 | -1.85 | -0.001079 | ± 2.5 | PASS |
| | | VN | -20 | 2.41 | 0.001405 | ± 2.5 | PASS |
| | | VN | -10 | -0.15 | -0.000087 | ± 2.5 | PASS |
| | | VN | 0 | -1.47 | -0.000857 | ± 2.5 | PASS |
| | | VN | 10 | 3.83 | 0.002233 | ± 2.5 | PASS |
| | | VN | 20 | 0.64 | 0.000373 | ± 2.5 | PASS |
| | | VN | 30 | 4.59 | 0.002676 | ± 2.5 | PASS |
| | | VN | 40 | 2.5 | 0.001458 | ± 2.5 | PASS |
| | | VN | 50 | 3.76 | 0.002192 | ± 2.5 | PASS |
| | MCH | VN | -30 | -1.65 | -0.000946 | ± 2.5 | PASS |
| | | VN | -20 | -0.16 | -0.000092 | ± 2.5 | PASS |
| | | VN | -10 | -0.83 | -0.000476 | ± 2.5 | PASS |
| | | VN | 0 | 3.06 | 0.001754 | ± 2.5 | PASS |
| | | VN | 10 | -0.26 | -0.000149 | ± 2.5 | PASS |
| | | VN | 20 | 4.61 | 0.002642 | ± 2.5 | PASS |

| | | | | | | | |
|------|-----|----|-------|-----------|-----------|-------|------|
| | VN | 30 | -1.86 | -0.001066 | ± 2.5 | PASS | |
| | | 40 | -0.06 | -0.000034 | ± 2.5 | PASS | |
| | | 50 | 0.96 | 0.000550 | ± 2.5 | PASS | |
| | HCH | VN | -30 | 2.9 | 0.001632 | ± 2.5 | PASS |
| | | VN | -20 | 0.78 | 0.000439 | ± 2.5 | PASS |
| | | VN | -10 | 3.04 | 0.001710 | ± 2.5 | PASS |
| | | VN | 0 | 2.31 | 0.001300 | ± 2.5 | PASS |
| | | VN | 10 | -0.23 | -0.000129 | ± 2.5 | PASS |
| | | VN | 20 | 4.64 | 0.002610 | ± 2.5 | PASS |
| | | VN | 30 | 3.84 | 0.002160 | ± 2.5 | PASS |
| | | VN | 40 | -1.27 | -0.000714 | ± 2.5 | PASS |
| | | VN | 50 | -1.87 | -0.001052 | ± 2.5 | PASS |
| QPSK | LCH | VN | -30 | 1.93 | 0.001125 | ± 2.5 | PASS |
| | | VN | -20 | -0.59 | -0.000344 | ± 2.5 | PASS |
| | | VN | -10 | 0.26 | 0.000152 | ± 2.5 | PASS |
| | | VN | 0 | 1.72 | 0.001003 | ± 2.5 | PASS |
| | | VN | 10 | 1.15 | 0.000671 | ± 2.5 | PASS |
| | | VN | 20 | 2.94 | 0.001714 | ± 2.5 | PASS |
| | | VN | 30 | 0.17 | 0.000099 | ± 2.5 | PASS |
| | | VN | 40 | 0.58 | 0.000338 | ± 2.5 | PASS |
| | | VN | 50 | -1.2 | -0.000700 | ± 2.5 | PASS |
| | MCH | VN | -30 | 3.33 | 0.001908 | ± 2.5 | PASS |
| | | VN | -20 | 1.79 | 0.001026 | ± 2.5 | PASS |
| | | VN | -10 | 4.39 | 0.002516 | ± 2.5 | PASS |
| | | VN | 0 | 4.58 | 0.002625 | ± 2.5 | PASS |
| | | VN | 10 | 1.01 | 0.000579 | ± 2.5 | PASS |
| | | VN | 20 | 1.38 | 0.000791 | ± 2.5 | PASS |
| | | VN | 30 | 2.85 | 0.001633 | ± 2.5 | PASS |
| | | VN | 40 | 2.06 | 0.001181 | ± 2.5 | PASS |
| | | VN | 50 | 3.71 | 0.002126 | ± 2.5 | PASS |
| | HCH | VN | -30 | 1.52 | 0.000855 | ± 2.5 | PASS |
| | | VN | -20 | 1.3 | 0.000731 | ± 2.5 | PASS |
| | | VN | -10 | 0.58 | 0.000326 | ± 2.5 | PASS |
| | | VN | 0 | 4.18 | 0.002352 | ± 2.5 | PASS |
| | | VN | 10 | 3.84 | 0.002160 | ± 2.5 | PASS |
| | | VN | 20 | 0.79 | 0.000444 | ± 2.5 | PASS |
| | | VN | 30 | 4.68 | 0.002633 | ± 2.5 | PASS |
| | | VN | 40 | 0.03 | 0.000017 | ± 2.5 | PASS |
| | | VN | 50 | 2.76 | 0.001553 | ± 2.5 | PASS |

Channel Bandwidth: 15 MHz

| Channel Bandwidth: 15 MHz | | | | | | | |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 4.08 | 0.002376 | ± 2.5 | PASS |
| | | VN | TN | -0.89 | -0.000518 | ± 2.5 | PASS |
| | | VH | TN | 2.06 | 0.001199 | ± 2.5 | PASS |
| | MCH | VL | TN | -1.99 | -0.001140 | ± 2.5 | PASS |
| | | VN | TN | 1.47 | 0.000842 | ± 2.5 | PASS |
| | | VH | TN | 2.55 | 0.001461 | ± 2.5 | PASS |
| | HCH | VL | TN | 2.67 | 0.001504 | ± 2.5 | PASS |
| | | VN | TN | 2.74 | 0.001544 | ± 2.5 | PASS |
| | | VH | TN | 4.38 | 0.002468 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 1.82 | 0.001060 | ± 2.5 | PASS |
| | | VN | TN | 3.12 | 0.001817 | ± 2.5 | PASS |
| | | VH | TN | 2.54 | 0.001479 | ± 2.5 | PASS |
| | MCH | VL | TN | 0.46 | 0.000264 | ± 2.5 | PASS |
| | | VN | TN | 3.75 | 0.002149 | ± 2.5 | PASS |
| | | VH | TN | 3.33 | 0.001908 | ± 2.5 | PASS |
| | HCH | VL | TN | 4.69 | 0.002642 | ± 2.5 | PASS |
| | | VN | TN | 3.02 | 0.001701 | ± 2.5 | PASS |
| | | VH | TN | 4.18 | 0.002355 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 4.8 | 0.002795 | ± 2.5 | PASS |
| | | VN | -20 | 0.38 | 0.000221 | ± 2.5 | PASS |
| | | VN | -10 | 4.16 | 0.002422 | ± 2.5 | PASS |
| | | VN | 0 | 3.24 | 0.001886 | ± 2.5 | PASS |
| | | VN | 10 | 0.84 | 0.000489 | ± 2.5 | PASS |
| | | VN | 20 | -0.91 | -0.000530 | ± 2.5 | PASS |
| | | VN | 30 | 4.17 | 0.002428 | ± 2.5 | PASS |
| | | VN | 40 | -1.28 | -0.000745 | ± 2.5 | PASS |
| | | VN | 50 | 3.71 | 0.002160 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.49 | 0.000854 | ± 2.5 | PASS |
| | | VN | -20 | 1.8 | 0.001032 | ± 2.5 | PASS |
| | | VN | -10 | 3.28 | 0.001880 | ± 2.5 | PASS |
| | | VN | 0 | 3.84 | 0.002201 | ± 2.5 | PASS |
| | | VN | 10 | 3.95 | 0.002264 | ± 2.5 | PASS |
| | | VN | 20 | 4.34 | 0.002487 | ± 2.5 | PASS |

| | | | | | | | |
|------|-----|----|-----|-------|-----------|-------|------|
| | | VN | 30 | 0.91 | 0.000521 | ± 2.5 | PASS |
| | | VN | 40 | 1.08 | 0.000619 | ± 2.5 | PASS |
| | | VN | 50 | 3.12 | 0.001788 | ± 2.5 | PASS |
| | HCH | VN | -30 | 4.81 | 0.002710 | ± 2.5 | PASS |
| | | VN | -20 | 0.94 | 0.000530 | ± 2.5 | PASS |
| | | VN | -10 | 0.81 | 0.000456 | ± 2.5 | PASS |
| | | VN | 0 | 2.14 | 0.001206 | ± 2.5 | PASS |
| | | VN | 10 | 0.17 | 0.000096 | ± 2.5 | PASS |
| | | VN | 20 | 3.23 | 0.001820 | ± 2.5 | PASS |
| | | VN | 30 | 3.43 | 0.001932 | ± 2.5 | PASS |
| | | VN | 40 | 4.25 | 0.002394 | ± 2.5 | PASS |
| | | VN | 50 | 3.55 | 0.002000 | ± 2.5 | PASS |
| QPSK | LCH | VN | -30 | 0.75 | 0.000437 | ± 2.5 | PASS |
| | | VN | -20 | 3.85 | 0.002242 | ± 2.5 | PASS |
| | | VN | -10 | -1.93 | -0.001124 | ± 2.5 | PASS |
| | | VN | 0 | 3.41 | 0.001985 | ± 2.5 | PASS |
| | | VN | 10 | -0.3 | -0.000175 | ± 2.5 | PASS |
| | | VN | 20 | -0.23 | -0.000134 | ± 2.5 | PASS |
| | | VN | 30 | 3.31 | 0.001927 | ± 2.5 | PASS |
| | | VN | 40 | 1.74 | 0.001013 | ± 2.5 | PASS |
| | | VN | 50 | 1.12 | 0.000652 | ± 2.5 | PASS |
| | MCH | VN | -30 | 0.46 | 0.000264 | ± 2.5 | PASS |
| | | VN | -20 | -0.24 | -0.000138 | ± 2.5 | PASS |
| | | VN | -10 | -1.36 | -0.000779 | ± 2.5 | PASS |
| | | VN | 0 | -0.25 | -0.000143 | ± 2.5 | PASS |
| | | VN | 10 | 2.05 | 0.001175 | ± 2.5 | PASS |
| | | VN | 20 | 2.08 | 0.001192 | ± 2.5 | PASS |
| | | VN | 30 | 0.21 | 0.000120 | ± 2.5 | PASS |
| | | VN | 40 | 2.07 | 0.001186 | ± 2.5 | PASS |
| | | VN | 50 | 4.9 | 0.002808 | ± 2.5 | PASS |
| | HCH | VN | -30 | -1.42 | -0.000800 | ± 2.5 | PASS |
| | | VN | -20 | 2.96 | 0.001668 | ± 2.5 | PASS |
| | | VN | -10 | 0.22 | 0.000124 | ± 2.5 | PASS |
| | | VN | 0 | 0.44 | 0.000248 | ± 2.5 | PASS |
| | | VN | 10 | 3.15 | 0.001775 | ± 2.5 | PASS |
| | | VN | 20 | 3.53 | 0.001989 | ± 2.5 | PASS |
| | | VN | 30 | 4.54 | 0.002558 | ± 2.5 | PASS |
| | | VN | 40 | 2.9 | 0.001634 | ± 2.5 | PASS |
| | | VN | 50 | -1.91 | -0.001076 | ± 2.5 | PASS |

Channel Bandwidth: 20 MHz

| Channel Bandwidth: 20 MHz | | | | | | | |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 3.44 | 0.002000 | ± 2.5 | PASS |
| | | VN | TN | -1.77 | -0.001029 | ± 2.5 | PASS |
| | | VH | TN | -1.38 | -0.000802 | ± 2.5 | PASS |
| | MCH | VL | TN | 2.48 | 0.001421 | ± 2.5 | PASS |
| | | VN | TN | 4.89 | 0.002802 | ± 2.5 | PASS |
| | | VH | TN | 1.5 | 0.000860 | ± 2.5 | PASS |
| | HCH | VL | TN | -1.83 | -0.001032 | ± 2.5 | PASS |
| | | VN | TN | 2.36 | 0.001331 | ± 2.5 | PASS |
| | | VH | TN | 4.43 | 0.002499 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 4.15 | 0.002413 | ± 2.5 | PASS |
| | | VN | TN | 1.01 | 0.000587 | ± 2.5 | PASS |
| | | VH | TN | 4.67 | 0.002715 | ± 2.5 | PASS |
| | MCH | VL | TN | 1.73 | 0.000991 | ± 2.5 | PASS |
| | | VN | TN | -0.26 | -0.000149 | ± 2.5 | PASS |
| | | VH | TN | -1.17 | -0.000670 | ± 2.5 | PASS |
| | HCH | VL | TN | -1.72 | -0.000970 | ± 2.5 | PASS |
| | | VN | TN | -1.8 | -0.001016 | ± 2.5 | PASS |
| | | VH | TN | 0.57 | 0.000322 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -0.05 | -0.000029 | ± 2.5 | PASS |
| | | VN | -20 | -0.01 | -0.000006 | ± 2.5 | PASS |
| | | VN | -10 | -0.24 | -0.000140 | ± 2.5 | PASS |
| | | VN | 0 | 2.6 | 0.001512 | ± 2.5 | PASS |
| | | VN | 10 | 1.25 | 0.000727 | ± 2.5 | PASS |
| | | VN | 20 | 0.66 | 0.000384 | ± 2.5 | PASS |
| | | VN | 30 | -0.14 | -0.000081 | ± 2.5 | PASS |
| | | VN | 40 | 2.52 | 0.001465 | ± 2.5 | PASS |
| | | VN | 50 | -1.63 | -0.000948 | ± 2.5 | PASS |
| | MCH | VN | -30 | -0.06 | -0.000034 | ± 2.5 | PASS |
| | | VN | -20 | 3.88 | 0.002223 | ± 2.5 | PASS |
| | | VN | -10 | -0.14 | -0.000080 | ± 2.5 | PASS |
| | | VN | 0 | 2.21 | 0.001266 | ± 2.5 | PASS |
| | | VN | 10 | -1.81 | -0.001037 | ± 2.5 | PASS |
| | | VN | 20 | 0.52 | 0.000298 | ± 2.5 | PASS |

| | | | | | | | |
|-----|-----|------|-------|-----------|-----------|-------|----------|
| | VN | 30 | -0.58 | -0.000332 | ± 2.5 | PASS | |
| | | 40 | 0.46 | 0.000264 | ± 2.5 | PASS | |
| | | 50 | -0.65 | -0.000372 | ± 2.5 | PASS | |
| | HCH | VN | -30 | 1.89 | 0.001066 | ± 2.5 | PASS |
| | | VN | -20 | 3.27 | 0.001845 | ± 2.5 | PASS |
| | | VN | -10 | 0.77 | 0.000434 | ± 2.5 | PASS |
| | | VN | 0 | 0.12 | 0.000068 | ± 2.5 | PASS |
| | | VN | 10 | 4.06 | 0.002291 | ± 2.5 | PASS |
| | | VN | 20 | -1.78 | -0.001004 | ± 2.5 | PASS |
| | | VN | 30 | 0.9 | 0.000508 | ± 2.5 | PASS |
| | | VN | 40 | 4.05 | 0.002285 | ± 2.5 | PASS |
| | | VN | 50 | 3.93 | 0.002217 | ± 2.5 | PASS |
| | | QPSK | LCH | VN | -30 | 2.84 | 0.001651 |
| VN | -20 | | | 1.95 | 0.001134 | ± 2.5 | PASS |
| VN | -10 | | | 1.28 | 0.000744 | ± 2.5 | PASS |
| VN | 0 | | | -1.51 | -0.000878 | ± 2.5 | PASS |
| VN | 10 | | | 2 | 0.001163 | ± 2.5 | PASS |
| VN | 20 | | | -1.69 | -0.000983 | ± 2.5 | PASS |
| VN | 30 | | | -1 | -0.000581 | ± 2.5 | PASS |
| VN | 40 | | | 1.92 | 0.001116 | ± 2.5 | PASS |
| VN | 50 | | | 0.93 | 0.000541 | ± 2.5 | PASS |
| MCH | VN | | -30 | -0.03 | -0.000017 | ± 2.5 | PASS |
| | VN | | -20 | -1.41 | -0.000808 | ± 2.5 | PASS |
| | VN | | -10 | -0.81 | -0.000464 | ± 2.5 | PASS |
| | VN | | 0 | -0.12 | -0.000069 | ± 2.5 | PASS |
| | VN | | 10 | 2.4 | 0.001375 | ± 2.5 | PASS |
| | VN | | 20 | 4.24 | 0.002430 | ± 2.5 | PASS |
| | VN | | 30 | 4.62 | 0.002648 | ± 2.5 | PASS |
| | VN | | 40 | 4.6 | 0.002636 | ± 2.5 | PASS |
| | VN | | 50 | 3.21 | 0.001840 | ± 2.5 | PASS |
| HCH | VN | | -30 | 0.69 | 0.000389 | ± 2.5 | PASS |
| | VN | | -20 | 4.12 | 0.002324 | ± 2.5 | PASS |
| | VN | | -10 | 3.01 | 0.001698 | ± 2.5 | PASS |
| | VN | | 0 | 2.74 | 0.001546 | ± 2.5 | PASS |
| | VN | | 10 | -1.09 | -0.000615 | ± 2.5 | PASS |
| | VN | | 20 | -1.14 | -0.000643 | ± 2.5 | PASS |
| | VN | | 30 | 1.63 | 0.000920 | ± 2.5 | PASS |
| | VN | | 40 | -1.62 | -0.000914 | ± 2.5 | PASS |
| | VN | | 50 | 0.95 | 0.000536 | ± 2.5 | PASS |