









































Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

| | | | Channel Band | width: 1.4 MHz | | | |
|------------|-------------|------------------|---|-------------------|--------------------|----------------|---------|
| | | | | tage | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°ℂ) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| | | VL | TN | -1.7 | -0.002061 | ± 2.5 | PASS |
| | LCH | VN | TN | 3.42 | 0.004147 | ± 2.5 | PASS |
| | | VH | TN | 4.84 | 0.005869 | ± 2.5 | PASS |
| | | VL | TN | -1.06 | -0.001267 | ± 2.5 | PASS |
| QPSK | MCH | VN | TN | 3.75 | 0.004483 | ± 2.5 | PASS |
| | | VH | TN | -0.41 | -0.000490 | ± 2.5 | PASS |
| | | VL | TN | 4.08 | 0.004810 | ± 2.5 | PASS |
| | HCH | VN | TN | -1.05 | -0.001238 | ± 2.5 | PASS |
| | | VH | TN | 2.74 | 0.003230 | ± 2.5 | PASS |
| | | VL | TN | 1.38 | 0.001673 | ± 2.5 | PASS |
| | LCH | VN | TN | 0.08 | 0.000097 | ± 2.5 | PASS |
| | | VH | TN | -1.94 | -0.002352 | ± 2.5 | PASS |
| | | VL | TN | -1.57 | -0.001877 | ± 2.5 | PASS |
| 16QAM | MCH | VN | TN | 1.16 | 0.001387 | ± 2.5 | PASS |
| | | VH | TN | -0.72 | -0.000861 | ± 2.5 | PASS |
| | | VL | TN | 0.91 | 0.001073 | ± 2.5 | PASS |
| | HCH | VN | TN | -0.85 | -0.001002 | ± 2.5 | PASS |
| | | VH | TN | 0.8 | 0.000943 | ± 2.5 | PASS |
| | 1 | | Tempe | erature | | | |
| Modulation | Channe I | Voltage [Vdc] | Temperature $(^{\circ}\!$ | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| | | VN | -30 | 2.78 | 0.003371 | ± 2.5 | PASS |
| | | VN | -20 | 1.6 | 0.001940 | ± 2.5 | PASS |
| | | VN | -10 | 1.05 | 0.001273 | ± 2.5 | PASS |
| | | VN | 0 | 1.03 | 0.001249 | ± 2.5 | PASS |
| QPSK | LCH | VN | 10 | -0.05 | -0.000061 | ± 2.5 | PASS |
| ur'sn | | VN | 20 | 0.85 | 0.001031 | ± 2.5 | PASS |
| | | VN | 30 | 1.63 | 0.001976 | ± 2.5 | PASS |
| | | VN | 40 | 1.34 | 0.001625 | ± 2.5 | PASS |
| | | VN | 50 | 3.37 | 0.004086 | ± 2.5 | PASS |
| | MCH | VN | -30 | 1.49 | 0.001781 | ± 2.5 | PASS |

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| | | | <u> </u> | | Ī | 1 | |
|-------|-----|----|----------|-------|-----------|-------|------|
| | | VN | -20 | 0.78 | 0.000932 | ± 2.5 | PASS |
| | | VN | -10 | 4.03 | 0.004818 | ± 2.5 | PASS |
| | | VN | 0 | -0.71 | -0.000849 | ± 2.5 | PASS |
| | | VN | 10 | 4.61 | 0.005511 | ± 2.5 | PASS |
| | | VN | 20 | 1.02 | 0.001219 | ± 2.5 | PASS |
| | | VN | 30 | 3.16 | 0.003778 | ± 2.5 | PASS |
| | | VN | 40 | -1.34 | -0.001602 | ± 2.5 | PASS |
| | | VN | 50 | 4.92 | 0.005882 | ± 2.5 | PASS |
| | | VN | -30 | -1.46 | -0.001721 | ± 2.5 | PASS |
| | | VN | -20 | 3.32 | 0.003914 | ± 2.5 | PASS |
| | | VN | -10 | 4.8 | 0.005658 | ± 2.5 | PASS |
| | | VN | 0 | 1.87 | 0.002204 | ± 2.5 | PASS |
| | HCH | VN | 10 | 0.76 | 0.000896 | ± 2.5 | PASS |
| | | VN | 20 | -0.33 | -0.000389 | ± 2.5 | PASS |
| | | VN | 30 | 4.28 | 0.005045 | ± 2.5 | PASS |
| | | VN | 40 | 0.66 | 0.000778 | ± 2.5 | PASS |
| | | VN | 50 | -1.08 | -0.001273 | ± 2.5 | PASS |
| | | VN | -30 | -1.73 | -0.002098 | ± 2.5 | PASS |
| | | VN | -20 | 2.39 | 0.002898 | ± 2.5 | PASS |
| | | VN | -10 | 1.25 | 0.001516 | ± 2.5 | PASS |
| | | VN | 0 | -1.27 | -0.001540 | ± 2.5 | PASS |
| | LCH | VN | 10 | 2.53 | 0.003068 | ± 2.5 | PASS |
| | | VN | 20 | 4.92 | 0.005966 | ± 2.5 | PASS |
| | | VN | 30 | 2.95 | 0.003577 | ± 2.5 | PASS |
| | | VN | 40 | -0.23 | -0.000279 | ± 2.5 | PASS |
| | | VN | 50 | 0.44 | 0.000534 | ± 2.5 | PASS |
| | | VN | -30 | 1.71 | 0.002016 | ± 2.5 | PASS |
| | | VN | -20 | -1.48 | -0.001745 | ± 2.5 | PASS |
| 16QAM | | VN | -10 | 3.69 | 0.004350 | ± 2.5 | PASS |
| TOQAW | | VN | 0 | 4.56 | 0.005375 | ± 2.5 | PASS |
| | МСН | VN | 10 | 4.84 | 0.005706 | ± 2.5 | PASS |
| | | VN | 20 | -1.58 | -0.001863 | ± 2.5 | PASS |
| | | VN | 30 | 2.67 | 0.003147 | ± 2.5 | PASS |
| | | VN | 40 | 1.3 | 0.001532 | ± 2.5 | PASS |
| | | VN | 50 | 3.65 | 0.004303 | ± 2.5 | PASS |
| | | VN | -30 | 2.12 | 0.002499 | ± 2.5 | PASS |
| | | VN | -20 | -1.98 | -0.002334 | ± 2.5 | PASS |
| | | VN | -10 | 2.93 | 0.003454 | ± 2.5 | PASS |
| | HCH | VN | 0 | 1.91 | 0.002252 | ± 2.5 | PASS |
| | | VN | 10 | 1.45 | 0.001709 | ± 2.5 | PASS |
| | | VN | 20 | 3.56 | 0.004197 | ± 2.5 | PASS |



| VN | 30 | -1.17 | -0.001379 | ± 2.5 | PASS |
|----|----|-------|-----------|-------|------|
| VN | 40 | 3.4 | 0.004008 | ± 2.5 | PASS |
| VN | 50 | 0.91 | 0.001073 | ± 2.5 | PASS |

Channel Bandwidth: 3 MHz

| | | | Channel Band | lwidth: 3 MHz+ | | | |
|------------|---------|------------------|---------------------|-------------------|--------------------|----------------|---------|
| | | | | tage | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| | | VL | TN | -1.3 | -0.001576 | ± 2.5 | PASS |
| | LCH | VN | TN | 0.86 | 0.001043 | ± 2.5 | PASS |
| | | VH | TN | -0.49 | -0.000594 | ± 2.5 | PASS |
| | | VL | TN | 2.1 | 0.002510 | ± 2.5 | PASS |
| QPSK | MCH | VN | TN | 2.5 | 0.002989 | ± 2.5 | PASS |
| | | VH | TN | -0.77 | -0.000921 | ± 2.5 | PASS |
| | | VL | TN | 0.66 | 0.000778 | ± 2.5 | PASS |
| | HCH | VN | TN | -1.65 | -0.001945 | ± 2.5 | PASS |
| | | VH | TN | -0.47 | -0.000554 | ± 2.5 | PASS |
| | | VL | TN | 2.22 | 0.002692 | ± 2.5 | PASS |
| | LCH | VN | TN | -0.86 | -0.001043 | ± 2.5 | PASS |
| | | VH | TN | -1.24 | -0.001504 | ± 2.5 | PASS |
| | | VL | TN | 0.07 | 0.000084 | ± 2.5 | PASS |
| 16QAM | MCH | VN | TN | 3.71 | 0.004435 | ± 2.5 | PASS |
| | | VH | TN | 0.03 | 0.000036 | ± 2.5 | PASS |
| | НСН | VL | TN | 0.4 | 0.000472 | ± 2.5 | PASS |
| | | VN | TN | -1.93 | -0.002275 | ± 2.5 | PASS |
| | | VH | TN | 0.31 | 0.000365 | ± 2.5 | PASS |
| | | | Tempe | erature | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| | | VN | -30 | 2.8 | 0.003395 | ± 2.5 | PASS |
| | | VN | -20 | 4.08 | 0.004947 | ± 2.5 | PASS |
| | | VN | -10 | 1.01 | 0.001225 | ± 2.5 | PASS |
| | | VN | 0 | 2.13 | 0.002583 | ± 2.5 | PASS |
| | LCH | VN | 10 | 4.85 | 0.005881 | ± 2.5 | PASS |
| QPSK | | VN | 20 | 0.54 | 0.000655 | ± 2.5 | PASS |
| | | VN | 30 | -1.58 | -0.001916 | ± 2.5 | PASS |
| | | VN | 40 | 3.3 | 0.004001 | ± 2.5 | PASS |
| | | VN | 50 | 0.16 | 0.000194 | ± 2.5 | PASS |
| | MOLL | VN | -30 | 2.12 | 0.002534 | ± 2.5 | PASS |
| | MCH | VN | -20 | 3.89 | 0.004650 | ± 2.5 | PASS |



| | | VN | -10 | 1.2 | 0.001435 | ± 2.5 | PASS |
|------|-----|----|-----|-------|-----------|-------|------|
| | | VN | 0 | 4.3 | 0.005140 | ± 2.5 | PASS |
| | | VN | 10 | -1.15 | -0.001375 | ± 2.5 | PASS |
| | | VN | 20 | 0.56 | 0.000669 | ± 2.5 | PASS |
| | | VN | 30 | 3.95 | 0.004722 | ± 2.5 | PASS |
| | | VN | 40 | 2.26 | 0.002702 | ± 2.5 | PASS |
| | | VN | 50 | 4.1 | 0.004901 | ± 2.5 | PASS |
| | | VN | -30 | 1.6 | 0.001886 | ± 2.5 | PASS |
| | | VN | -20 | 4.22 | 0.004975 | ± 2.5 | PASS |
| | | VN | -10 | 2.07 | 0.002440 | ± 2.5 | PASS |
| | | VN | 0 | 4.02 | 0.004739 | ± 2.5 | PASS |
| | HCH | VN | 10 | 4.74 | 0.005588 | ± 2.5 | PASS |
| | 1.0 | VN | 20 | -1.26 | -0.001485 | ± 2.5 | PASS |
| | | VN | 30 | 4.32 | 0.005093 | ± 2.5 | PASS |
| | | VN | 40 | 1.7 | 0.002004 | ± 2.5 | PASS |
| | | VN | 50 | -1.94 | -0.002287 | ± 2.5 | PASS |
| | | VN | -30 | 2.37 | 0.002874 | ± 2.5 | PASS |
| | | VN | -20 | 4.02 | 0.004874 | ± 2.5 | PASS |
| | | VN | -10 | 1.44 | 0.001746 | ± 2.5 | PASS |
| | | VN | 0 | 4.6 | 0.005578 | ± 2.5 | PASS |
| | LCH | VN | 10 | -0.16 | -0.000194 | ± 2.5 | PASS |
| | | VN | 20 | 2.4 | 0.002910 | ± 2.5 | PASS |
| | | VN | 30 | 3.09 | 0.003747 | ± 2.5 | PASS |
| | | VN | 40 | 1.18 | 0.001431 | ± 2.5 | PASS |
| | | VN | 50 | 0.71 | 0.000861 | ± 2.5 | PASS |
| | | VN | -30 | -0.46 | -0.000542 | ± 2.5 | PASS |
| | | VN | -20 | -0.08 | -0.000094 | ± 2.5 | PASS |
| | | VN | -10 | 1.58 | 0.001863 | ± 2.5 | PASS |
| QPSK | | VN | 0 | -0.24 | -0.000283 | ± 2.5 | PASS |
| | MCH | VN | 10 | -1.44 | -0.001698 | ± 2.5 | PASS |
| | | VN | 20 | 3 | 0.003536 | ± 2.5 | PASS |
| | | VN | 30 | 2.72 | 0.003206 | ± 2.5 | PASS |
| | | VN | 40 | 3.69 | 0.004350 | ± 2.5 | PASS |
| | | VN | 50 | -1.43 | -0.001686 | ± 2.5 | PASS |
| | | VN | -30 | -0.55 | -0.000648 | ± 2.5 | PASS |
| | | VN | -20 | 4.82 | 0.005682 | ± 2.5 | PASS |
| | | VN | -10 | 3.89 | 0.004586 | ± 2.5 | PASS |
| | HCH | VN | 0 | 1.86 | 0.002193 | ± 2.5 | PASS |
| | | VN | 10 | 3.96 | 0.004668 | ± 2.5 | PASS |
| | | VN | 20 | 0.51 | 0.000601 | ± 2.5 | PASS |
| | | VN | 30 | 4.4 | 0.005187 | ± 2.5 | PASS |



| VN | 40 | 2.53 | 0.002982 | ± 2.5 | PASS |
|----|----|------|----------|-------|------|
| VN | 50 | 0.55 | 0.000648 | ± 2.5 | PASS |

Channel Bandwidth: 5 MHz

| | | | Channel Ban | dwidth: 5 MHz | | | |
|------------|---------|------------------|---------------------|-------------------|-----------------|----------------|---------|
| | | | | tage | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| | | VL | TN | 2.41 | 0.002922 | ± 2.5 | PASS |
| | LCH | VN | TN | 0.33 | 0.000400 | ± 2.5 | PASS |
| | | VH | TN | 1.96 | 0.002377 | ± 2.5 | PASS |
| | | VL | TN | 0.6 | 0.000717 | ± 2.5 | PASS |
| QPSK | MCH | VN | TN | 4.43 | 0.005296 | ± 2.5 | PASS |
| | | VH | TN | -0.62 | -0.000741 | ± 2.5 | PASS |
| | | VL | TN | 3.78 | 0.004456 | ± 2.5 | PASS |
| | HCH | VN | TN | 2.93 | 0.003454 | ± 2.5 | PASS |
| | | VH | TN | 3.68 | 0.004338 | ± 2.5 | PASS |
| | | VL | TN | 4.27 | 0.005178 | ± 2.5 | PASS |
| | LCH | VN | TN | -0.97 | -0.001176 | ± 2.5 | PASS |
| | | VH | TN | 3.15 | 0.003820 | ± 2.5 | PASS |
| | MCH | VL | TN | 4.67 | 0.005583 | ± 2.5 | PASS |
| 16QAM | | VN | TN | 4.85 | 0.005798 | ± 2.5 | PASS |
| | | VH | TN | -1.97 | -0.002355 | ± 2.5 | PASS |
| | НСН | VL | TN | 0.65 | 0.000766 | ± 2.5 | PASS |
| | | VN | TN | 3.29 | 0.003878 | ± 2.5 | PASS |
| | | VH | TN | 3.45 | 0.004067 | ± 2.5 | PASS |
| | | | Tempe | erature | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| | | VN | -30 | 0.08 | 0.000097 | ± 2.5 | PASS |
| | | VN | -20 | 4.63 | 0.005614 | ± 2.5 | PASS |
| | | VN | -10 | -1.27 | -0.001540 | ± 2.5 | PASS |
| | | VN | 0 | 0.2 | 0.000243 | ± 2.5 | PASS |
| | LCH | VN | 10 | -1.17 | -0.001419 | ± 2.5 | PASS |
| QPSK | | VN | 20 | 2.91 | 0.003529 | ± 2.5 | PASS |
| QFSK | | VN | 30 | 0.54 | 0.000655 | ± 2.5 | PASS |
| | | VN | 40 | 2.28 | 0.002765 | ± 2.5 | PASS |
| | | VN | 50 | 2.14 | 0.002595 | ± 2.5 | PASS |
| | | VN | -30 | 4.92 | 0.005882 | ± 2.5 | PASS |
| | МСН | VN | -20 | -1.4 | -0.001674 | ± 2.5 | PASS |
| | | VN | -10 | 1.26 | 0.001506 | ± 2.5 | PASS |



| | | VN | 0 10 20 30 40 50 | 1.72 2.87 0.98 -1.37 -0.87 0.19 | 0.002056 0.003431 0.001172 -0.001638 | ± 2.5 ± 2.5 ± 2.5 ± 2.5 | PASS PASS PASS |
|-------|------------|-------------------------------|---------------------------------|--|---|----------------------------------|----------------|
| | | VN VN VN VN VN | 20 30 40 50 | 0.98 -1.37 -0.87 | 0.001172 -0.001638 | ± 2.5 | PASS |
| | | VN VN VN | 30 40 50 | -1.37 -0.87 | -0.001638 | | |
| | | VN VN VN | 40 50 | -0.87 | | ± 2.5 | PASS |
| | | VN VN | 50 | | 0.004040 | | |
| | | VN | | 0.19 | -0.001040 | ± 2.5 | PASS |
| | | | -30 | 55 | 0.000227 | ± 2.5 | PASS |
| | | VN | | 4.76 | 0.005611 | ± 2.5 | PASS |
| | | | -20 | 3.38 | 0.003984 | ± 2.5 | PASS |
| | | VN | -10 | -0.61 | -0.000719 | ± 2.5 | PASS |
| | | VN | 0 | -1.33 | -0.001568 | ± 2.5 | PASS |
| | НСН | VN | 10 | -0.61 | -0.000719 | ± 2.5 | PASS |
| | | VN | 20 | -0.46 | -0.000542 | ± 2.5 | PASS |
| | | VN | 30 | 1.47 | 0.001733 | ± 2.5 | PASS |
| | | VN | 40 | -1.87 | -0.002204 | ± 2.5 | PASS |
| | | VN | 50 | 0.7 | 0.000825 | ± 2.5 | PASS |
| | | VN | -30 | 2.77 | 0.003359 | ± 2.5 | PASS |
| | | VN | -20 | -1.71 | -0.002073 | ± 2.5 | PASS |
| | | VN | -10 | -0.06 | -0.000073 | ± 2.5 | PASS |
| | | VN | 0 | -0.88 | -0.001067 | ± 2.5 | PASS |
| L | _CH | VN | 10 | 2.8 | 0.003395 | ± 2.5 | PASS |
| | | VN | 20 | 2.61 | 0.003165 | ± 2.5 | PASS |
| | | VN | 30 | 2.45 | 0.002971 | ± 2.5 | PASS |
| | | VN | 40 | 4.99 | 0.006051 | ± 2.5 | PASS |
| | | VN | 50 | 4.37 | 0.005299 | ± 2.5 | PASS |
| | | VN | -30 | -1.86 | -0.002193 | ± 2.5 | PASS |
| | | VN | -20 | 1.29 | 0.001521 | ± 2.5 | PASS |
| | | VN | -10 | 0.2 | 0.000236 | ± 2.5 | PASS |
| 16QAM | | VN | 0 | 1.42 | 0.001674 | ± 2.5 | PASS |
| N | ЛСН | VN | 10 | 0.54 | 0.000637 | ± 2.5 | PASS |
| | | VN | 20 | 0.87 | 0.001026 | ± 2.5 | PASS |
| | | VN | 30 | 2.3 | 0.002711 | ± 2.5 | PASS |
| | | VN | 40 | 2.74 | 0.003230 | ± 2.5 | PASS |
| | | VN | 50 | -1.49 | -0.001756 | ± 2.5 | PASS |
| | | VN | -30 | 4.08 | 0.004810 | ± 2.5 | PASS |
| | | VN | -20 | -1.13 | -0.001332 | ± 2.5 | PASS |
| | | VN | -10 | 1.12 | 0.001320 | ± 2.5 | PASS |
| | | VN | 0 | 3.69 | 0.004350 | ± 2.5 | PASS |
| ' | HCH | VN | 10 | 2.47 | 0.002912 | ± 2.5 | PASS |
| | | VN | 20 | 2.17 | 0.002558 | ± 2.5 | PASS |
| | | VN | 30 | 1.55 | 0.001827 | ± 2.5 | PASS |
| | | VN | 40 | 4.59 | 0.005411 | ± 2.5 | PASS |



| VN 50 3.55 0.004185 ± 2.5 PAS |
|-------------------------------|
|-------------------------------|

Channel Bandwidth: 10 MHz

| | | | Channel Band | lwidth: 10 MHz | | | |
|------------|---------|------------------|---------------------|-------------------|-----------------|----------------|---------|
| | | | | tage | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| | | VL | TN | 2.41 | 0.002922 | ± 2.5 | PASS |
| | LCH | VN | TN | -0.93 | -0.001128 | ± 2.5 | PASS |
| | | VH | TN | -1.95 | -0.002364 | ± 2.5 | PASS |
| | | VL | TN | 3.72 | 0.004447 | ± 2.5 | PASS |
| QPSK | MCH | VN | TN | -0.48 | -0.000574 | ± 2.5 | PASS |
| | | VH | TN | 4.16 | 0.004973 | ± 2.5 | PASS |
| | | VL | TN | 4.04 | 0.004762 | ± 2.5 | PASS |
| | HCH | VN | TN | -1.38 | -0.001627 | ± 2.5 | PASS |
| | | VH | TN | 3.23 | 0.003808 | ± 2.5 | PASS |
| | | VL | TN | -1.73 | -0.002098 | ± 2.5 | PASS |
| | LCH | VN | TN | 0.11 | 0.000133 | ± 2.5 | PASS |
| | | VH | TN | -1.42 | -0.001722 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.49 | 0.004172 | ± 2.5 | PASS |
| 16QAM | | VN | TN | 2.03 | 0.002427 | ± 2.5 | PASS |
| | | VH | TN | 3.83 | 0.004579 | ± 2.5 | PASS |
| | | VL | TN | 0.16 | 0.000189 | ± 2.5 | PASS |
| | HCH | VN | TN | 2.67 | 0.003147 | ± 2.5 | PASS |
| | | VH | TN | -0.41 | -0.000483 | ± 2.5 | PASS |
| | | | Tempe | erature | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| | | VN | -30 | 3.97 | 0.004814 | ± 2.5 | PASS |
| | | VN | -20 | 3.87 | 0.004693 | ± 2.5 | PASS |
| | | VN | -10 | -1.02 | -0.001237 | ± 2.5 | PASS |
| | | VN | 0 | -1 | -0.001213 | ± 2.5 | PASS |
| | LCH | VN | 10 | -1.66 | -0.002013 | ± 2.5 | PASS |
| | | VN | 20 | -1.18 | -0.001431 | ± 2.5 | PASS |
| 16QAM | | VN | 30 | -1.73 | -0.002098 | ± 2.5 | PASS |
| IOQAW | | VN | 40 | -1.72 | -0.002086 | ± 2.5 | PASS |
| | | VN | 50 | -1.37 | -0.001661 | ± 2.5 | PASS |
| | | VN | -30 | -0.99 | -0.001184 | ± 2.5 | PASS |
| | | VN | -20 | -1.84 | -0.002200 | ± 2.5 | PASS |
| | MCH | VN | -10 | 3.48 | 0.004160 | ± 2.5 | PASS |
| | | VN | 0 | -1.02 | -0.001219 | ± 2.5 | PASS |
| | | VN | 10 | 4.33 | 0.005176 | ± 2.5 | PASS |



| r | 1 | l | I | 1 | <u> </u> | | |
|------|-----|----|-----|-------|-----------|-------|------|
| | | VN | 20 | 3.31 | 0.003957 | ± 2.5 | PASS |
| | | VN | 30 | 2.03 | 0.002427 | ± 2.5 | PASS |
| | | VN | 40 | 3.9 | 0.004662 | ± 2.5 | PASS |
| | | VN | 50 | 0.31 | 0.000371 | ± 2.5 | PASS |
| | | VN | -30 | 3.19 | 0.003760 | ± 2.5 | PASS |
| | | VN | -20 | 4.3 | 0.005069 | ± 2.5 | PASS |
| | | VN | -10 | -1.26 | -0.001485 | ± 2.5 | PASS |
| | | VN | 0 | -0.12 | -0.000141 | ± 2.5 | PASS |
| | HCH | VN | 10 | 0.04 | 0.000047 | ± 2.5 | PASS |
| | | VN | 20 | 0.19 | 0.000224 | ± 2.5 | PASS |
| | | VN | 30 | 2.44 | 0.002876 | ± 2.5 | PASS |
| | | VN | 40 | 3.91 | 0.004609 | ± 2.5 | PASS |
| | | VN | 50 | 3.17 | 0.003737 | ± 2.5 | PASS |
| | | VN | -30 | 3.01 | 0.003650 | ± 2.5 | PASS |
| | | VN | -20 | 0.6 | 0.000728 | ± 2.5 | PASS |
| | | VN | -10 | -1.91 | -0.002316 | ± 2.5 | PASS |
| | | VN | 0 | 2.46 | 0.002983 | ± 2.5 | PASS |
| | LCH | VN | 10 | 0.4 | 0.000485 | ± 2.5 | PASS |
| | | VN | 20 | 4.05 | 0.004911 | ± 2.5 | PASS |
| | | VN | 30 | 3.47 | 0.004208 | ± 2.5 | PASS |
| | | VN | 40 | -1.76 | -0.002134 | ± 2.5 | PASS |
| | | VN | 50 | -1.54 | -0.001867 | ± 2.5 | PASS |
| | | VN | -30 | -1.99 | -0.002346 | ± 2.5 | PASS |
| | | VN | -20 | 4.48 | 0.005281 | ± 2.5 | PASS |
| | | VN | -10 | -1.12 | -0.001320 | ± 2.5 | PASS |
| | | VN | 0 | 3.43 | 0.004043 | ± 2.5 | PASS |
| QPSK | MCH | VN | 10 | 0.77 | 0.000908 | ± 2.5 | PASS |
| | | VN | 20 | 2.37 | 0.002794 | ± 2.5 | PASS |
| | | VN | 30 | -0.84 | -0.000990 | ± 2.5 | PASS |
| | | VN | 40 | 1.86 | 0.002193 | ± 2.5 | PASS |
| | | VN | 50 | 3.43 | 0.004043 | ± 2.5 | PASS |
| | | VN | -30 | -0.86 | -0.001014 | ± 2.5 | PASS |
| | | VN | -20 | 1.4 | 0.001650 | ± 2.5 | PASS |
| | | VN | -10 | 2.87 | 0.003383 | ± 2.5 | PASS |
| | | VN | 0 | 3.16 | 0.003725 | ± 2.5 | PASS |
| | нсн | VN | 10 | -1.67 | -0.001969 | ± 2.5 | PASS |
| | | VN | 20 | 1 | 0.001179 | ± 2.5 | PASS |
| | | VN | 30 | 4.06 | 0.004786 | ± 2.5 | PASS |
| | | VN | 40 | -0.56 | -0.000660 | ± 2.5 | PASS |
| | | VN | 50 | 0.89 | 0.001049 | ± 2.5 | PASS |
| L | l | l | | L | l | | _ |