# Report of Calibration

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| | | | |
|---|---|---|---|
| UNIT UNDER TEST: | Rohde & Schwarz FSU26 Spectrum Analyzer | TEST RESULT: | PASS |
| SERIAL NUMBER: | 100223 | PERFORMED ON: | 02 March 2011 |
| ASSET NUMBER: | Sample-R&S FSU26 | DATA TYPE: | FOUND-LEFT |
| PROCEDURE NAME: | R&S FSU26: (1 yr) VER /LPNX,4419,DMM,LFCTR,SWPG,UWSC | TEMPERATURE: | 23.00 °C |
| PROCEDURE REV.: | $Revision: 1.1 $ | HUMIDITY: | 40 % |
| CALIBRATED BY: | Fluke Calibration | | |
| P.O. NUMBER: | | | |
| CUSTOMER: | | | |

Joe Schmo Laboratories, Inc. certifies that the above listed instrument meets or exceeds all specifications as stated in the referenced procedure unless otherwise noted). It has been calibrated using measurement standards traceable to the National Institute of Standards and Technology (NIST), or to NIST accepted intrinsic standards of measurement, or derived by the ratio type of self-calibration techniques. This calibration complies with MIL-STD-45662A and ANSI/NCSL Z540.1-1999 (R2002).



Note: Any Test Uncertainty Ratio (TUR) that is less than four to one will appear under the "TUR" heading on the data record. If the TUR meets or exceeds four to one, the field is left blank.

REMARKS: Test Time: 1 hr. 25 min.

## Standards Used

| Asset # | Description | Cal Date | Due Date |
|---|---|---|---|
| Sample-Anritsu MG3694B | Anritsu MG3694B Signal Generator | 12/20/2010 | 12/20/2011 |
| Sample-Fluke 9640A-50 (X) | Fluke 9640A-50 Leveling Head | 10/27/2010 | 10/27/2011 |
| Sample-Fluke 9640A-LPNX | Fluke 9640A-LPNX RF Reference Source | 10/27/2010 | 10/27/2011 |
| Sample-HP 11667B | Hewlett Packard 11667B Power Splitter | 12/20/2010 | 12/20/2011 |
| Sample-HP 83630B | Hewlett Packard 83630B 8360B Series Swept Signal Generator | 12/20/2010 | 12/20/2011 |
| Sample-HP 8485A | Hewlett Packard 8485A Power Sensor | 12/20/2010 | 12/20/2011 |
| Sample-HP 8485A-2 | Hewlett Packard 8485A Power Sensor | 10/14/2010 | 10/14/2011 |
| Sample-HP E4419A | Hewlett Packard E4419A Power Meter | 12/20/2010 | 12/20/2011 |

## Test Results

| Test Description | True Value | Test Result | Lower limit | Upper limit | Units | TUR |
|---|---|---|---|---|---|---|

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IDENTIFICATION

 Serial Number:   100223/026
 Firmware Level:  4.51

INSTALLED OPTIONS

 FSU-B4    (OCXO, 10 MHz)
 FSP-B16   (LAN Interface)
 FSU-B25   (Electronic Attenuator)
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| Test Description | True Value | Test Result | Lower limit | Upper limit | Units | | TUR |
|---|---|---|---|---|---|---|---|
| FS-K7 (FM Measurement Demodulator) | | | | | | | |
| SELF TEST | | | | | | Pass | |
| INTERNAL CAL | | | | | | Pass | |
| REFERENCE FREQUENCY ACCURACY | | | | | | | |
| 10 MHz | | 10.00000000 | 9.99999950 | 10.00000050 | MHz | Pass | |
| IF IMAGE FREQUENCY REJECTION | | | | | | | |
| 1st IF Frequency | | | | | | | |
| 11 MHz | | -111.7 | -130.0 | -90.0 | dB | Pass | |
| 101 MHz | | -111.1 | -130.0 | -90.0 | dB | Pass | |
| 501 MHz | | -111.5 | -130.0 | -90.0 | dB | Pass | |
| 901 MHz | | -109.1 | -130.0 | -90.0 | dB | Pass | |
| 1301 MHz | | -110.7 | -130.0 | -90.0 | dB | Pass | |
| 1701 MHz | | -108.1 | -130.0 | -90.0 | dB | Pass | |
| 2101 MHz | | -110.4 | -130.0 | -90.0 | dB | Pass | |
| 2501 MHz | | -106.9 | -130.0 | -90.0 | dB | Pass | |
| 3101 MHz | | -105.9 | -130.0 | -90.0 | dB | Pass | |
| 3599 MHz | | -108.6 | -130.0 | -90.0 | dB | Pass | |
| 2nd IF Frequency | | | | | | | |
| 101 MHz | | -100.9 | -130.0 | -90.0 | dB | Pass | |
| 4199 MHz | | -100.2 | -130.0 | -70.0 | dB | Pass | |
| 5501 MHz | | -99.7 | -130.0 | -70.0 | dB | Pass | |
| 7999 MHz | | -102.7 | -130.0 | -70.0 | dB | Pass | |
| 25301 MHz | | -101.3 | -130.0 | -70.0 | dB | Pass | |
| 26499 MHz | | -99.3 | -130.0 | -70.0 | dB | Pass | |
| 3rd IF Frequency | | | | | | | |
| 101 MHz | | -99.1 | -130.0 | -90.0 | dB | Pass | |
| 20000 MHz | | -88.8 | -130.0 | -70.0 | dB | Pass | |
| 3799 MHz | | -98.1 | -130.0 | -70.0 | dB | Pass | |
| IF REJECTION | | | | | | | |
| 1st IF Frequency | | | | | | | |
| 11 MHz | | -112.4 | -130.0 | -90.0 | dB | Pass | |
| 101 MHz | | -109.0 | -130.0 | -90.0 | dB | Pass | |
| 701 MHz | | -111.0 | -130.0 | -90.0 | dB | Pass | |
| 1799 MHz | | -110.1 | -130.0 | -90.0 | dB | Pass | |
| 2501 MHz | | -106.3 | -130.0 | -90.0 | dB | Pass | |
| 3599 MHz | | -107.5 | -130.0 | -90.0 | dB | Pass | |
| 2nd IF Frequency | | | | | | | |
| 101 MHz | | -101.5 | -130.0 | -90.0 | dB | Pass | |
| 5501 MHz | | -108.6 | -130.0 | -70.0 | dB | Pass | |
| 7999 MHz | | -110.0 | -130.0 | -70.0 | dB | Pass | |
| THIRD-ORDER INTERCEPT POINT | | | | | | | |
| 28 MHz | | 27.6 | 17.0 | 35.0 | dBm | Pass | |
| 106 MHz | | 26.8 | 17.0 | 35.0 | dBm | Pass | |
| 261 MHz | | 29.2 | 17.0 | 35.0 | dBm | Pass | |
| 640 MHz | | 27.8 | 22.0 | 35.0 | dBm | Pass | |
| 1000 MHz | | 24.0 | 22.0 | 35.0 | dBm | Pass | |
| 1700 MHz | | 24.4 | 22.0 | 35.0 | dBm | Pass | |
| 2500 MHz | | 27.1 | 22.0 | 35.0 | dBm | Pass | |
| 2990 MHz | | 26.2 | 22.0 | 35.0 | dBm | Pass | |
| 3590 MHz | | 25.6 | 22.0 | 35.0 | dBm | Pass | |
| 4100 MHz | | 26.9 | 12.0 | 35.0 | dBm | Pass | |

| Test Description | True Value | Test Result | Lower limit | Upper limit | Units | | TUR |
|---|---|---|---|---|---|---|---|
| 5001 MHz | | 23.8 | 12.0 | 35.0 | dBm | Pass | |
| 7990 MHz | | 22.0 | 12.0 | 35.0 | dBm | Pass | |
| 12000 MHz | | 23.3 | 12.0 | 35.0 | dBm | Pass | |
| 20000 MHz | | 17.9 | 12.0 | 35.0 | dBm | Pass | |
| 22000 MHz | | 19.2 | 12.0 | 35.0 | dBm | Pass | |
| 24000 MHz | | 20.4 | 12.0 | 35.0 | dBm | Pass | |
| 26000 MHz | | 21.5 | 12.0 | 35.0 | dBm | Pass | |
| THIRD-ORDER INTERCEPT POINT (Option FSU-B25) | | | | | | | |
| 28 MHz | | 27.7 | 17.0 | 40.0 | dBm | Pass | |
| 106 MHz | | 24.3 | 17.0 | 40.0 | dBm | Pass | |
| 261 MHz | | 26.6 | 17.0 | 40.0 | dBm | Pass | |
| 640 MHz | | 25.8 | 20.0 | 40.0 | dBm | Pass | |
| 1000 MHz | | 24.5 | 20.0 | 40.0 | dBm | Pass | |
| 1700 MHz | | 24.1 | 20.0 | 40.0 | dBm | Pass | |
| 2500 MHz | | 27.5 | 20.0 | 40.0 | dBm | Pass | |
| 2990 MHz | | 25.9 | 20.0 | 40.0 | dBm | Pass | |
| 3590 MHz | | 25.6 | 20.0 | 40.0 | dBm | Pass | |
| SECOND-ORDER HARMONIC DISTORTION | | | | | | | |
| 28 MHz | | -51.4 | -100.0 | -35.0 | dBc | Pass | |
| 261 MHz | | -70.2 | -100.0 | -45.0 | dBc | Pass | |
| 450 MHz | | -61.1 | -100.0 | -52.0 | dBc | Pass | |
| 1000 MHz | | -59.2 | -100.0 | -45.0 | dBc | Pass | |
| 1700 MHz | | -58.3 | -100.0 | -35.0 | dBc | Pass | |
| IF FILTER | | | | | | | |
| Bandwidth Switching Error (10 kHz RBW Reference) | | | | | | | |
| 100 Hz | | 0.01 | -0.10 | 0.10 | dB | Pass | |
| 1 kHz | | -0.01 | -0.10 | 0.10 | dB | Pass | |
| 100 kHz | | 0.00 | -0.10 | 0.10 | dB | Pass | |
| 300 kHz | | 0.08 | -0.20 | 0.20 | dB | Pass | |
| 1 MHz | | 0.08 | -0.20 | 0.20 | dB | Pass | |
| 3 MHz | | 0.09 | -0.20 | 0.20 | dB | Pass | |
| 10 MHz | | -0.05 | -0.50 | 0.50 | dB | Pass | |
| 20 MHz | | 0.05 | -0.50 | 0.50 | dB | Pass | |
| 50 MHz | | 0.16 | -0.50 | 0.50 | dB | Pass | |
| FFT Bandwidth Switching Error (10 kHz RBW Reference) | | | | | | | |
| 100 Hz | | 0.01 | -0.20 | 0.20 | dB | Pass | |
| 300 Hz | | 0.00 | -0.20 | 0.20 | dB | Pass | |
| 1 kHz | | 0.00 | -0.20 | 0.20 | dB | Pass | |
| 3 kHz | | 0.00 | -0.20 | 0.20 | dB | Pass | |
| 3 dB Bandwidth | | | | | | | |
| 100 Hz | | 100.5 | 97.0 | 103.0 | Hz | Pass | 3.00 |
| 1 kHz | | 1.000 | 0.970 | 1.030 | kHz | Pass | 3.00 |
| 10 kHz | | 10.00 | 9.70 | 10.30 | kHz | Pass | 3.00 |
| 100 kHz | | 101.4 | 97.0 | 103.0 | kHz | Pass | 3.00 |
| 300 kHz | | 304.3 | 270.0 | 330.0 | kHz | Pass | |
| 1 MHz | | 1.024 | 0.900 | 1.100 | MHz | Pass | |
| 3 MHz | | 2.971 | 2.700 | 3.300 | MHz | Pass | |
| 10 MHz | | 9.76 | 7.00 | 11.00 | MHz | Pass | |
| 20 MHz | | 20.58 | 16.00 | 24.00 | MHz | Pass | |
| 50 MHz | | 47.84 | 40.00 | 60.00 | MHz | Pass | |
| Shape Factor | | | | | | | |
| 100 Hz | | 4.50 | 0.00 | 6.00 | | Pass | |
| 1 kHz | | 4.78 | 0.00 | 6.00 | | Pass | |
| 10 kHz | | 5.45 | 0.00 | 6.00 | | Pass | |
| 100 kHz | | 4.49 | 0.00 | 6.00 | | Pass | |

| Test Description | True Value | Test Result | Lower limit | Upper limit | Units | TUR |
|---|---|---|---|---|---|---|
| 300 kHz | | 9.19 | 0.00 | 12.00 | | Pass |
| 1 MHz | | 8.76 | 0.00 | 12.00 | | Pass |
| 3 MHz | | 5.11 | 0.00 | 7.00 | | Pass |
| 10 MHz | | 3.32 | 0.00 | 7.00 | | Pass |
| DISPLAYED AVERAGE NOISE LEVEL | | | | | | |
| 20 Hz | | -111.4 | -140.0 | -90.0 | dBm | Pass |
| 90 Hz | | -117.3 | -140.0 | -110.0 | dBm | Pass |
| 900 Hz | | -125.9 | -140.0 | -120.0 | dBm | Pass |
| 9 kHz | | -132.9 | -160.0 | -130.0 | dBm | Pass |
| 95 kHz | | -142.3 | -160.0 | -130.0 | dBm | Pass |
| 999 kHz | | -151.5 | -160.0 | -140.0 | dBm | Pass |
| 9.99 MHz | | -157.0 | -180.0 | -153.0 | dBm | Pass |
| 19.99 MHz | | -156.9 | -180.0 | -153.0 | dBm | Pass |
| 49.99 MHz | | -156.7 | -180.0 | -152.0 | dBm | Pass |
| 99.99 MHz | | -156.1 | -180.0 | -152.0 | dBm | Pass |
| 199.99 MHz | | -155.7 | -180.0 | -152.0 | dBm | Pass |
| 499.99 MHz | | -156.4 | -180.0 | -152.0 | dBm | Pass |
| 999.9 MHz | | -155.2 | -180.0 | -152.0 | dBm | Pass |
| 1499 MHz | | -154.2 | -180.0 | -152.0 | dBm | Pass |
| 1999 MHz | | -153.7 | -180.0 | -152.0 | dBm | Pass |
| 2499 MHz | | -152.5 | -180.0 | -150.0 | dBm | Pass |
| 2999 MHz | | -151.2 | -180.0 | -150.0 | dBm | Pass |
| 3599 MHz | | -151.0 | -180.0 | -150.0 | dBm | Pass |
| 3999 MHz | | -154.0 | -180.0 | -152.0 | dBm | Pass |
| 4499 MHz | | -154.5 | -180.0 | -152.0 | dBm | Pass |
| 4999 MHz | | -154.7 | -180.0 | -152.0 | dBm | Pass |
| 5499 MHz | | -155.0 | -180.0 | -152.0 | dBm | Pass |
| 5999 MHz | | -154.7 | -180.0 | -152.0 | dBm | Pass |
| 6499 MHz | | -155.0 | -180.0 | -152.0 | dBm | Pass |
| 6999 MHz | | -154.9 | -180.0 | -152.0 | dBm | Pass |
| 7499 MHz | | -155.1 | -180.0 | -152.0 | dBm | Pass |
| 7999 MHz | | -154.8 | -180.0 | -152.0 | dBm | Pass |
| 9999 MHz | | -153.2 | -180.0 | -150.0 | dBm | Pass |
| 12999 MHz | | -153.4 | -180.0 | -150.0 | dBm | Pass |
| 17999 MHz | | -150.9 | -180.0 | -148.0 | dBm | Pass |
| 21999 MHz | | -150.6 | -180.0 | -147.0 | dBm | Pass |
| 26499 MHz | | -146.3 | -180.0 | -145.0 | dBm | Pass |
| DISPLAYED AVERAGE NOISE LEVEL (Option FSU-B25) | | | | | | |
| 10.99 MHz | | -165.0 | -180.0 | -162.0 | dBm | Pass |
| 19.99 MHz | | -166.3 | -180.0 | -162.0 | dBm | Pass |
| 49.99 MHz | | -167.2 | -180.0 | -152.0 | dBm | Pass |
| 99.99 MHz | | -167.1 | -180.0 | -152.0 | dBm | Pass |
| 199.99 MHz | | -166.6 | -180.0 | -152.0 | dBm | Pass |
| 499.99 MHz | | -166.4 | -180.0 | -152.0 | dBm | Pass |
| 999.9 MHz | | -166.3 | -180.0 | -152.0 | dBm | Pass |
| 1499 MHz | | -165.1 | -180.0 | -152.0 | dBm | Pass |
| 1999 MHz | | -164.9 | -180.0 | -152.0 | dBm | Pass |
| 2499 MHz | | -164.5 | -180.0 | -160.0 | dBm | Pass |
| 2999 MHz | | -164.1 | -180.0 | -160.0 | dBm | Pass |
| 3599 MHz | | -163.3 | -180.0 | -160.0 | dBm | Pass |
| LEVEL ACCURACY | | | | | | |
| 128 MHz | | -10.043 | -10.200 | -9.800 | dBm | Pass |
| LEVEL ACCURACY (Option FSU-B25) | | | | | | |
| 128 MHz | | -10.045 | -10.300 | -9.700 | dBm | Pass |

FREQUENCY RESPONSE, < 3.6 GHz

RF Attenuation: 10 dB (DC Coupled)

Test Results

| Test Description | True Value | Test Result | Lower limit | Upper limit | Units | | TUR |
|---|---|---|---|---|---|---|---|
| 1 MHz | | -0.120 | -0.500 | 0.500 | dB | Pass | |
| 10 MHz | | -0.137 | -0.300 | 0.300 | dB | Pass | 2.43 |
| 50 MHz | | 0.005 | -0.300 | 0.300 | dB | Pass | 2.34 |
| 100 MHz | | 0.033 | -0.300 | 0.300 | dB | Pass | 2.36 |
| 200 MHz | | 0.012 | -0.300 | 0.300 | dB | Pass | 2.24 |
| 500 MHz | | 0.040 | -0.300 | 0.300 | dB | Pass | |
| 1000 MHz | | 0.022 | -0.300 | 0.300 | dB | Pass | |
| 1500 MHz | | 0.078 | -0.300 | 0.300 | dB | Pass | |
| 2000 MHz | | 0.007 | -0.300 | 0.300 | dB | Pass | |
| 2500 MHz | | 0.016 | -0.300 | 0.300 | dB | Pass | |
| 3000 MHz | | -0.006 | -0.300 | 0.300 | dB | Pass | |
| 3599 MHz | | -0.028 | -0.300 | 0.300 | dB | Pass | |
| RF Attenuation: 10 dB (AC Coupled) | | | | | | | |
| 10 MHz | | -0.084 | -0.300 | 0.300 | dB | Pass | 2.46 |
| 50 MHz | | 0.070 | -0.300 | 0.300 | dB | Pass | 2.38 |
| 100 MHz | | 0.080 | -0.300 | 0.300 | dB | Pass | 2.38 |
| 200 MHz | | 0.066 | -0.300 | 0.300 | dB | Pass | 2.27 |
| 500 MHz | | 0.117 | -0.300 | 0.300 | dB | Pass | |
| 1000 MHz | | 0.071 | -0.300 | 0.300 | dB | Pass | |
| 1500 MHz | | 0.152 | -0.300 | 0.300 | dB | Pass | |
| 2000 MHz | | 0.057 | -0.300 | 0.300 | dB | Pass | |
| 2500 MHz | | 0.082 | -0.300 | 0.300 | dB | Pass | |
| 3000 MHz | | 0.040 | -0.300 | 0.300 | dB | Pass | |
| 3599 MHz | | 0.088 | -0.300 | 0.300 | dB | Pass | |
| RF Attenuation: 5 dB (DC Coupled) | | | | | | | |
| 10 MHz | | -0.069 | -0.300 | 0.300 | dB | Pass | 2.47 |
| 50 MHz | | 0.066 | -0.300 | 0.300 | dB | Pass | 2.38 |
| 100 MHz | | 0.075 | -0.300 | 0.300 | dB | Pass | 2.38 |
| 200 MHz | | 0.048 | -0.300 | 0.300 | dB | Pass | 2.26 |
| 500 MHz | | 0.078 | -0.300 | 0.300 | dB | Pass | |
| 1000 MHz | | 0.035 | -0.300 | 0.300 | dB | Pass | |
| 1500 MHz | | 0.095 | -0.300 | 0.300 | dB | Pass | |
| 2000 MHz | | 0.004 | -0.300 | 0.300 | dB | Pass | |
| 2500 MHz | | 0.038 | -0.300 | 0.300 | dB | Pass | |
| 3000 MHz | | -0.003 | -0.300 | 0.300 | dB | Pass | |
| 3599 MHz | | 0.010 | -0.300 | 0.300 | dB | Pass | |
| RF Attenuation: 20 dB (DC Coupled) | | | | | | | |
| 10 MHz | | -0.113 | -0.300 | 0.300 | dB | Pass | 2.44 |
| 50 MHz | | 0.068 | -0.300 | 0.300 | dB | Pass | 2.38 |
| 100 MHz | | 0.089 | -0.300 | 0.300 | dB | Pass | 2.39 |
| 200 MHz | | 0.068 | -0.300 | 0.300 | dB | Pass | 2.27 |
| 500 MHz | | 0.087 | -0.300 | 0.300 | dB | Pass | |
| 1000 MHz | | 0.062 | -0.300 | 0.300 | dB | Pass | |
| 1500 MHz | | 0.128 | -0.300 | 0.300 | dB | Pass | |
| 2000 MHz | | 0.055 | -0.300 | 0.300 | dB | Pass | |
| 2500 MHz | | 0.080 | -0.300 | 0.300 | dB | Pass | |
| 3000 MHz | | 0.076 | -0.300 | 0.300 | dB | Pass | |
| 3599 MHz | | 0.057 | -0.300 | 0.300 | dB | Pass | |
| RF Attenuation: 40 dB (DC Coupled) | | | | | | | |
| 10 MHz | | -0.071 | -0.300 | 0.300 | dB | Pass | 2.46 |
| 50 MHz | | 0.051 | -0.300 | 0.300 | dB | Pass | 2.37 |
| 100 MHz | | 0.064 | -0.300 | 0.300 | dB | Pass | 2.38 |
| 200 MHz | | 0.065 | -0.300 | 0.300 | dB | Pass | 2.27 |
| 500 MHz | | 0.086 | -0.300 | 0.300 | dB | Pass | |
| 1000 MHz | | 0.051 | -0.300 | 0.300 | dB | Pass | |
| 1500 MHz | | 0.115 | -0.300 | 0.300 | dB | Pass | |
| 2000 MHz | | 0.035 | -0.300 | 0.300 | dB | Pass | |
| 2500 MHz | | 0.052 | -0.300 | 0.300 | dB | Pass | |

Test Results

| Test Description | True Value | Test Result | Lower limit | Upper limit | Units | | TUR |
|---|---|---|---|---|---|---|---|
| 3000 MHz | | 0.014 | -0.300 | 0.300 | dB | Pass | |
| 3599 MHz | | 0.031 | -0.300 | 0.300 | dB | Pass | |
| FREQUENCY RESPONSE, < 3.6 GHz (FSU-B25 Option) | | | | | | | |
| Electronic Attenuator: 0 dB | | | | | | | |
| 10 MHz | | -0.120 | -1.000 | 1.000 | dB | Pass | |
| 50 MHz | | 0.019 | -0.600 | 0.600 | dB | Pass | |
| 100 MHz | | 0.017 | -0.600 | 0.600 | dB | Pass | |
| 200 MHz | | 0.002 | -0.600 | 0.600 | dB | Pass | |
| 500 MHz | | 0.049 | -0.600 | 0.600 | dB | Pass | |
| 1000 MHz | | -0.018 | -0.600 | 0.600 | dB | Pass | |
| 1500 MHz | | 0.023 | -0.600 | 0.600 | dB | Pass | |
| 2000 MHz | | 0.009 | -0.600 | 0.600 | dB | Pass | |
| 2500 MHz | | 0.046 | -0.600 | 0.600 | dB | Pass | |
| 3000 MHz | | 0.043 | -0.600 | 0.600 | dB | Pass | |
| 3599 MHz | | 0.050 | -0.600 | 0.600 | dB | Pass | |
| Electronic Attenuator: 5 dB | | | | | | | |
| 10 MHz | | -0.094 | -1.000 | 1.000 | dB | Pass | |
| 50 MHz | | 0.036 | -0.600 | 0.600 | dB | Pass | |
| 100 MHz | | -0.005 | -0.600 | 0.600 | dB | Pass | |
| 200 MHz | | 0.035 | -0.600 | 0.600 | dB | Pass | |
| 500 MHz | | -0.014 | -0.600 | 0.600 | dB | Pass | |
| 1000 MHz | | -0.062 | -0.600 | 0.600 | dB | Pass | |
| 1500 MHz | | 0.020 | -0.600 | 0.600 | dB | Pass | |
| 2000 MHz | | -0.051 | -0.600 | 0.600 | dB | Pass | |
| 2500 MHz | | -0.041 | -0.600 | 0.600 | dB | Pass | |
| 3000 MHz | | -0.016 | -0.600 | 0.600 | dB | Pass | |
| 3599 MHz | | 0.004 | -0.600 | 0.600 | dB | Pass | |
| Electronic Attenuator: 10 dB | | | | | | | |
| 10 MHz | | -0.142 | -1.000 | 1.000 | dB | Pass | |
| 50 MHz | | 0.020 | -0.600 | 0.600 | dB | Pass | |
| 100 MHz | | 0.028 | -0.600 | 0.600 | dB | Pass | |
| 200 MHz | | -0.010 | -0.600 | 0.600 | dB | Pass | |
| 500 MHz | | 0.002 | -0.600 | 0.600 | dB | Pass | |
| 1000 MHz | | -0.052 | -0.600 | 0.600 | dB | Pass | |
| 1500 MHz | | 0.068 | -0.600 | 0.600 | dB | Pass | |
| 2000 MHz | | -0.005 | -0.600 | 0.600 | dB | Pass | |
| 2500 MHz | | 0.001 | -0.600 | 0.600 | dB | Pass | |
| 3000 MHz | | 0.004 | -0.600 | 0.600 | dB | Pass | |
| 3599 MHz | | -0.014 | -0.600 | 0.600 | dB | Pass | |
| Electronic Attenuator: 15 dB | | | | | | | |
| 10 MHz | | -0.152 | -1.000 | 1.000 | dB | Pass | |
| 50 MHz | | 0.028 | -0.600 | 0.600 | dB | Pass | |
| 100 MHz | | 0.016 | -0.600 | 0.600 | dB | Pass | |
| 200 MHz | | 0.050 | -0.600 | 0.600 | dB | Pass | |
| 500 MHz | | -0.009 | -0.600 | 0.600 | dB | Pass | |
| 1000 MHz | | -0.071 | -0.600 | 0.600 | dB | Pass | |
| 1500 MHz | | 0.010 | -0.600 | 0.600 | dB | Pass | |
| 2000 MHz | | -0.035 | -0.600 | 0.600 | dB | Pass | |
| 2500 MHz | | 0.009 | -0.600 | 0.600 | dB | Pass | |
| 3000 MHz | | -0.071 | -0.600 | 0.600 | dB | Pass | |
| 3599 MHz | | -0.003 | -0.600 | 0.600 | dB | Pass | |
| Electronic Attenuator: 20 dB | | | | | | | |
| 10 MHz | | -0.149 | -1.000 | 1.000 | dB | Pass | |
| 50 MHz | | 0.046 | -0.600 | 0.600 | dB | Pass | |
| 100 MHz | | 0.006 | -0.600 | 0.600 | dB | Pass | |
| 200 MHz | | 0.029 | -0.600 | 0.600 | dB | Pass | |

Test Results

| Test Description | True Value | Test Result | Lower limit | Upper limit | Units | | TUR |
|---|---|---|---|---|---|---|---|
| 500 MHz | | 0.032 | -0.600 | 0.600 | dB | Pass | |
| 1000 MHz | | 0.001 | -0.600 | 0.600 | dB | Pass | |
| 1500 MHz | | 0.067 | -0.600 | 0.600 | dB | Pass | |
| 2000 MHz | | 0.025 | -0.600 | 0.600 | dB | Pass | |
| 2500 MHz | | 0.042 | -0.600 | 0.600 | dB | Pass | |
| 3000 MHz | | -0.001 | -0.600 | 0.600 | dB | Pass | |
| 3599 MHz | | 0.045 | -0.600 | 0.600 | dB | Pass | |
| Electronic Attenuator: 25 dB | | | | | | | |
| 10 MHz | | -0.154 | -1.000 | 1.000 | dB | Pass | |
| 50 MHz | | -0.003 | -0.600 | 0.600 | dB | Pass | |
| 100 MHz | | -0.034 | -0.600 | 0.600 | dB | Pass | |
| 200 MHz | | 0.021 | -0.600 | 0.600 | dB | Pass | |
| 500 MHz | | -0.019 | -0.600 | 0.600 | dB | Pass | |
| 1000 MHz | | -0.018 | -0.600 | 0.600 | dB | Pass | |
| 1500 MHz | | 0.043 | -0.600 | 0.600 | dB | Pass | |
| 2000 MHz | | -0.019 | -0.600 | 0.600 | dB | Pass | |
| 2500 MHz | | 0.018 | -0.600 | 0.600 | dB | Pass | |
| 3000 MHz | | 0.006 | -0.600 | 0.600 | dB | Pass | |
| 3599 MHz | | -0.012 | -0.600 | 0.600 | dB | Pass | |
| Electronic Attenuator: 30 dB | | | | | | | |
| 10 MHz | | -0.145 | -1.000 | 1.000 | dB | Pass | |
| 50 MHz | | 0.017 | -0.600 | 0.600 | dB | Pass | |
| 100 MHz | | 0.014 | -0.600 | 0.600 | dB | Pass | |
| 200 MHz | | 0.012 | -0.600 | 0.600 | dB | Pass | |
| 500 MHz | | -0.014 | -0.600 | 0.600 | dB | Pass | |
| 1000 MHz | | -0.035 | -0.600 | 0.600 | dB | Pass | |
| 1500 MHz | | 0.049 | -0.600 | 0.600 | dB | Pass | |
| 2000 MHz | | -0.025 | -0.600 | 0.600 | dB | Pass | |
| 2500 MHz | | -0.033 | -0.600 | 0.600 | dB | Pass | |
| 3000 MHz | | -0.058 | -0.600 | 0.600 | dB | Pass | |
| 3599 MHz | | -0.010 | -0.600 | 0.600 | dB | Pass | |
| FREQUENCY RESPONSE, > 3.6 GHz | | | | | | | |
| RF Attenuation: 10 dB | | | | | | | |
| 3.610 GHz | | -0.23 | -1.50 | 1.50 | dB | Pass | 2.77 |
| 4.000 GHz | | -0.58 | -1.50 | 1.50 | dB | Pass | 2.58 |
| 4.500 GHz | | -0.29 | -1.50 | 1.50 | dB | Pass | 2.75 |
| 5.000 GHz | | -0.57 | -1.50 | 1.50 | dB | Pass | 2.57 |
| 5.500 GHz | | -0.45 | -1.50 | 1.50 | dB | Pass | 2.65 |
| 6.000 GHz | | -0.44 | -1.50 | 1.50 | dB | Pass | 2.65 |
| 6.500 GHz | | -0.57 | -1.50 | 1.50 | dB | Pass | 2.58 |
| 7.000 GHz | | -0.42 | -1.50 | 1.50 | dB | Pass | 2.66 |
| 7.990 GHz | | -0.52 | -1.50 | 1.50 | dB | Pass | 2.60 |
| 9.000 GHz | | -0.53 | -2.00 | 2.00 | dB | Pass | 3.68 |
| 10.000 GHz | | -0.78 | -2.00 | 2.00 | dB | Pass | 3.47 |
| 11.000 GHz | | -0.65 | -2.00 | 2.00 | dB | Pass | 3.58 |
| 12.000 GHz | | -0.61 | -2.00 | 2.00 | dB | Pass | 3.61 |
| 13.000 GHz | | -0.42 | -2.00 | 2.00 | dB | Pass | 3.75 |
| 14.000 GHz | | -0.44 | -2.00 | 2.00 | dB | Pass | 3.73 |
| 15.000 GHz | | -0.61 | -2.00 | 2.00 | dB | Pass | 3.59 |
| 16.000 GHz | | -0.46 | -2.00 | 2.00 | dB | Pass | 3.71 |
| 17.000 GHz | | -0.78 | -2.00 | 2.00 | dB | Pass | 3.45 |
| 18.000 GHz | | -0.58 | -2.00 | 2.00 | dB | Pass | 3.42 |
| 19.000 GHz | | -0.45 | -2.00 | 2.00 | dB | Pass | 3.02 |
| 20.000 GHz | | -0.32 | -2.00 | 2.00 | dB | Pass | 3.11 |
| 21.000 GHz | | -0.24 | -2.00 | 2.00 | dB | Pass | 3.17 |
| 22.000 GHz | | -0.17 | -2.00 | 2.00 | dB | Pass | 3.22 |
| 23.000 GHz | | -0.48 | -2.50 | 2.50 | dB | Pass | 3.99 |
| 24.000 GHz | | -0.37 | -2.50 | 2.50 | dB | Pass | |

Test Results

| Test Description | True Value | Test Result | Lower limit | Upper limit | Units | | TUR |
|---|---|---|---|---|---|---|---|
| 25.000 GHz | | -0.98 | -2.50 | 2.50 | dB | Pass | 3.55 |
| 26.000 GHz | | -0.39 | -2.50 | 2.50 | dB | Pass | |
| RF Attenuation: 15 dB | | | | | | | |
| 3.610 GHz | | -0.07 | -1.50 | 1.50 | dB | Pass | 2.86 |
| 4.000 GHz | | -0.55 | -1.50 | 1.50 | dB | Pass | 2.58 |
| 4.500 GHz | | -0.25 | -1.50 | 1.50 | dB | Pass | 2.77 |
| 5.000 GHz | | -0.47 | -1.50 | 1.50 | dB | Pass | 2.63 |
| 5.500 GHz | | -0.43 | -1.50 | 1.50 | dB | Pass | 2.65 |
| 6.000 GHz | | -0.34 | -1.50 | 1.50 | dB | Pass | 2.71 |
| 6.500 GHz | | -0.47 | -1.50 | 1.50 | dB | Pass | 2.63 |
| 7.000 GHz | | -0.38 | -1.50 | 1.50 | dB | Pass | 2.69 |
| 7.990 GHz | | -0.54 | -1.50 | 1.50 | dB | Pass | 2.59 |
| 9.000 GHz | | -0.54 | -2.00 | 2.00 | dB | Pass | 3.67 |
| 10.000 GHz | | -0.72 | -2.00 | 2.00 | dB | Pass | 3.52 |
| 11.000 GHz | | -0.62 | -2.00 | 2.00 | dB | Pass | 3.60 |
| 12.000 GHz | | -0.63 | -2.00 | 2.00 | dB | Pass | 3.59 |
| 13.000 GHz | | -0.41 | -2.00 | 2.00 | dB | Pass | 3.76 |
| 14.000 GHz | | -0.39 | -2.00 | 2.00 | dB | Pass | 3.75 |
| 15.000 GHz | | -0.69 | -2.00 | 2.00 | dB | Pass | 3.52 |
| 16.000 GHz | | -0.33 | -2.00 | 2.00 | dB | Pass | 3.83 |
| 17.000 GHz | | -0.66 | -2.00 | 2.00 | dB | Pass | 3.54 |
| 18.000 GHz | | -0.41 | -2.00 | 2.00 | dB | Pass | 3.51 |
| 19.000 GHz | | -0.62 | -2.00 | 2.00 | dB | Pass | 2.89 |
| 20.000 GHz | | -0.17 | -2.00 | 2.00 | dB | Pass | 3.22 |
| 21.000 GHz | | -0.12 | -2.00 | 2.00 | dB | Pass | 3.25 |
| 22.000 GHz | | -0.29 | -2.00 | 2.00 | dB | Pass | 3.13 |
| 23.000 GHz | | -0.45 | -2.50 | 2.50 | dB | Pass | |
| 24.000 GHz | | -0.30 | -2.50 | 2.50 | dB | Pass | |
| 25.000 GHz | | -0.86 | -2.50 | 2.50 | dB | Pass | 3.65 |
| 26.000 GHz | | -0.55 | -2.50 | 2.50 | dB | Pass | 3.97 |
| RF Attenuation: 20 dB | | | | | | | |
| 3.610 GHz | | -0.09 | -1.50 | 1.50 | dB | Pass | 2.87 |
| 4.000 GHz | | -0.53 | -1.50 | 1.50 | dB | Pass | 2.60 |
| 4.500 GHz | | -0.17 | -1.50 | 1.50 | dB | Pass | 2.82 |
| 5.000 GHz | | -0.52 | -1.50 | 1.50 | dB | Pass | 2.60 |
| 5.500 GHz | | -0.32 | -1.50 | 1.50 | dB | Pass | 2.72 |
| 6.000 GHz | | -0.34 | -1.50 | 1.50 | dB | Pass | 2.71 |
| 6.500 GHz | | -0.37 | -1.50 | 1.50 | dB | Pass | 2.70 |
| 7.000 GHz | | -0.37 | -1.50 | 1.50 | dB | Pass | 2.69 |
| 7.990 GHz | | -0.52 | -1.50 | 1.50 | dB | Pass | 2.60 |
| 9.000 GHz | | -0.53 | -2.00 | 2.00 | dB | Pass | 3.68 |
| 10.000 GHz | | -0.77 | -2.00 | 2.00 | dB | Pass | 3.48 |
| 11.000 GHz | | -0.63 | -2.00 | 2.00 | dB | Pass | 3.60 |
| 12.000 GHz | | -0.61 | -2.00 | 2.00 | dB | Pass | 3.61 |
| 13.000 GHz | | -0.38 | -2.00 | 2.00 | dB | Pass | 3.78 |
| 14.000 GHz | | -0.36 | -2.00 | 2.00 | dB | Pass | 3.80 |
| 15.000 GHz | | -0.63 | -2.00 | 2.00 | dB | Pass | 3.58 |
| 16.000 GHz | | -0.29 | -2.00 | 2.00 | dB | Pass | 3.84 |
| 17.000 GHz | | -0.60 | -2.00 | 2.00 | dB | Pass | 3.60 |
| 18.000 GHz | | -0.25 | -2.00 | 2.00 | dB | Pass | 3.68 |
| 19.000 GHz | | -0.73 | -2.00 | 2.00 | dB | Pass | 2.83 |
| 20.000 GHz | | -0.19 | -2.00 | 2.00 | dB | Pass | 3.21 |
| 21.000 GHz | | 0.09 | -2.00 | 2.00 | dB | Pass | 2.15 |
| 22.000 GHz | | -0.34 | -2.00 | 2.00 | dB | Pass | 3.09 |
| 23.000 GHz | | -0.57 | -2.50 | 2.50 | dB | Pass | 3.91 |
| 24.000 GHz | | -0.27 | -2.50 | 2.50 | dB | Pass | |
| 25.000 GHz | | -1.03 | -2.50 | 2.50 | dB | Pass | 3.48 |
| 26.000 GHz | | -0.84 | -2.50 | 2.50 | dB | Pass | 3.72 |
| RF Attenuation: 40 dB | | | | | | | |

| Test Description | True Value | Test Result | Lower limit | Upper limit | Units | | TUR |
|---|---|---|---|---|---|---|---|
| 3.610 GHz | | -0.06 | -1.50 | 1.50 | dB | Pass | 2.90 |
| 4.000 GHz | | -0.57 | -1.50 | 1.50 | dB | Pass | 2.57 |
| 4.500 GHz | | -0.09 | -1.50 | 1.50 | dB | Pass | 2.87 |
| 5.000 GHz | | -0.46 | -1.50 | 1.50 | dB | Pass | 2.64 |
| 5.500 GHz | | -0.37 | -1.50 | 1.50 | dB | Pass | 2.69 |
| 6.000 GHz | | -0.40 | -1.50 | 1.50 | dB | Pass | 2.68 |
| 6.500 GHz | | -0.40 | -1.50 | 1.50 | dB | Pass | 2.67 |
| 7.000 GHz | | -0.36 | -1.50 | 1.50 | dB | Pass | 2.70 |
| 7.990 GHz | | -0.54 | -1.50 | 1.50 | dB | Pass | 2.59 |
| 9.000 GHz | | -0.51 | -2.00 | 2.00 | dB | Pass | 3.70 |
| 10.000 GHz | | -0.70 | -2.00 | 2.00 | dB | Pass | 3.54 |
| 11.000 GHz | | -0.55 | -2.00 | 2.00 | dB | Pass | 3.66 |
| 12.000 GHz | | -0.66 | -2.00 | 2.00 | dB | Pass | 3.57 |
| 13.000 GHz | | -0.39 | -2.00 | 2.00 | dB | Pass | 3.78 |
| 14.000 GHz | | -0.29 | -2.00 | 2.00 | dB | Pass | 3.86 |
| 15.000 GHz | | -0.66 | -2.00 | 2.00 | dB | Pass | 3.55 |
| 16.000 GHz | | -0.21 | -2.00 | 2.00 | dB | Pass | 3.93 |
| 17.000 GHz | | -0.44 | -2.00 | 2.00 | dB | Pass | 3.73 |
| 18.000 GHz | | -0.39 | -2.00 | 2.00 | dB | Pass | 3.57 |
| 19.000 GHz | | -0.56 | -2.00 | 2.00 | dB | Pass | 2.94 |
| 20.000 GHz | | -0.10 | -2.00 | 2.00 | dB | Pass | 3.27 |
| 21.000 GHz | | 0.04 | -2.00 | 2.00 | dB | Pass | 2.13 |
| 22.000 GHz | | -0.26 | -2.00 | 2.00 | dB | Pass | 3.15 |
| 23.000 GHz | | -0.39 | -2.50 | 2.50 | dB | Pass | |
| 24.000 GHz | | -0.44 | -2.50 | 2.50 | dB | Pass | |
| 25.000 GHz | | -0.81 | -2.50 | 2.50 | dB | Pass | 3.66 |
| 26.000 GHz | | -0.92 | -2.50 | 2.50 | dB | Pass | 3.63 |
| DISPLAY LINEARITY (-10 dBm Reference) | | | | | | | |
| RBW 500 Hz | | | | | | | |
| +10 dB | | 9.973 | 9.900 | 10.100 | dB | Pass | 3.54 |
| + 5 dB | | 4.983 | 4.900 | 5.100 | dB | Pass | 3.55 |
| - 5 dB | | -5.007 | -5.100 | -4.900 | dB | Pass | 3.56 |
| -10 dB | | -10.010 | -10.100 | -9.900 | dB | Pass | 3.56 |
| -15 dB | | -15.016 | -15.100 | -14.900 | dB | Pass | 3.55 |
| -20 dB | | -20.006 | -20.100 | -19.900 | dB | Pass | 3.56 |
| -25 dB | | -25.011 | -25.100 | -24.900 | dB | Pass | 3.56 |
| -30 dB | | -30.007 | -30.100 | -29.900 | dB | Pass | 3.56 |
| -35 dB | | -35.013 | -35.100 | -34.900 | dB | Pass | 3.55 |
| -40 dB | | -39.995 | -40.100 | -39.900 | dB | Pass | 2.73 |
| -45 dB | | -45.003 | -45.100 | -44.900 | dB | Pass | 2.73 |
| -50 dB | | -50.006 | -50.100 | -49.900 | dB | Pass | 1.87 |
| -55 dB | | -55.016 | -55.100 | -54.900 | dB | Pass | 1.86 |
| -60 dB | | -60.042 | -60.100 | -59.900 | dB | Pass | 1.36 |
| -65 dB | | -65.055 | -65.300 | -64.700 | dB | Pass | |
| -70 dB | | -70.107 | -70.300 | -69.700 | dB | Pass | |
| -75 dB | | -75.131 | -75.300 | -74.700 | dB | Pass | |
| -80 dB | | -80.173 | -80.300 | -79.700 | dB | Pass | |
| RBW 300 kHz | | | | | | | |
| +10 dB | | 9.889 | 9.800 | 10.200 | dB | Pass | |
| + 5 dB | | 4.973 | 4.800 | 5.200 | dB | Pass | |
| - 5 dB | | -5.000 | -5.200 | -4.800 | dB | Pass | |
| -10 dB | | -10.001 | -10.200 | -9.800 | dB | Pass | |
| -15 dB | | -15.004 | -15.200 | -14.800 | dB | Pass | |
| -20 dB | | -20.003 | -20.200 | -19.800 | dB | Pass | |
| -25 dB | | -25.041 | -25.200 | -24.800 | dB | Pass | |
| -30 dB | | -30.052 | -30.200 | -29.800 | dB | Pass | |
| -35 dB | | -35.052 | -35.200 | -34.800 | dB | Pass | |
| -40 dB | | -40.042 | -40.200 | -39.800 | dB | Pass | |
| -45 dB | | -45.038 | -45.500 | -44.500 | dB | Pass | |

## Test Results

| Test Description | True Value | Test Result | Lower limit | Upper limit | Units | | TUR |
|---|---|---|---|---|---|---|---|
| -50 dB | | -50.031 | -50.500 | -49.500 | dB | Pass | |
| -55 dB | | -55.021 | -55.500 | -54.500 | dB | Pass | |
| -60 dB | | -60.038 | -60.500 | -59.500 | dB | Pass | |
| RBW 10 MHz | | | | | | | |
| +10 dB | | 10.000 | 9.500 | 10.500 | dB | Pass | |
| + 5 dB | | 4.999 | 4.500 | 5.500 | dB | Pass | |
| - 5 dB | | -4.988 | -5.500 | -4.500 | dB | Pass | |
| -10 dB | | -10.004 | -10.500 | -9.500 | dB | Pass | |
| -15 dB | | -15.016 | -15.500 | -14.500 | dB | Pass | |
| -20 dB | | -20.005 | -20.500 | -19.500 | dB | Pass | |
| -25 dB | | -25.045 | -25.500 | -24.500 | dB | Pass | |
| -30 dB | | -30.044 | -30.500 | -29.500 | dB | Pass | |
| -35 dB | | -35.045 | -35.500 | -34.500 | dB | Pass | |
| -40 dB | | -40.033 | -40.500 | -39.500 | dB | Pass | |
| RF ATTENUATOR ACCURACY (Option FSU-B25) | | | | | | | |
| Relative to 10 dB | | | | | | | |
| 0 dB | | -10.004 | -10.200 | -9.800 | dB | Pass | 2.35 |
| 5 dB | | -4.997 | -5.200 | -4.800 | dB | Pass | 2.74 |
| 15 dB | | 4.993 | 4.800 | 5.200 | dB | Pass | 3.48 |
| 20 dB | | 9.990 | 9.800 | 10.200 | dB | Pass | 3.48 |
| 25 dB | | 14.969 | 14.800 | 15.200 | dB | Pass | 3.75 |
| 30 dB | | 19.977 | 19.800 | 20.200 | dB | Pass | 3.76 |
| 35 dB | | 24.979 | 24.800 | 25.200 | dB | Pass | 3.76 |
| 40 dB | | 29.984 | 29.800 | 30.200 | dB | Pass | 3.76 |
| 45 dB | | 34.982 | 34.800 | 35.200 | dB | Pass | 3.76 |
| 50 dB | | 39.977 | 39.800 | 40.200 | dB | Pass | 3.76 |
| 55 dB | | 44.986 | 44.800 | 45.200 | dB | Pass | 3.77 |
| 60 dB | | 49.985 | 49.800 | 50.200 | dB | Pass | 3.76 |
| 65 dB | | 54.980 | 54.800 | 55.200 | dB | Pass | 3.76 |
| 70 dB | | 59.988 | 59.800 | 60.200 | dB | Pass | 3.76 |
| 75 dB | | 64.988 | 64.800 | 65.200 | dB | Pass | 3.77 |
| ELECTRONIC ATTENUATOR ACCURACY (Option FSU-B25) | | | | | | | |
| 0 dB | | 0.001 | -0.300 | 0.300 | dB | Pass | |
| 5 dB | | 4.989 | 4.700 | 5.300 | dB | Pass | |
| 10 dB | | 10.001 | 9.700 | 10.300 | dB | Pass | |
| 15 dB | | 14.999 | 14.700 | 15.300 | dB | Pass | |
| 20 dB | | 19.999 | 19.700 | 20.300 | dB | Pass | |
| 25 dB | | 24.998 | 24.700 | 25.300 | dB | Pass | |
| 30 dB | | 29.994 | 29.700 | 30.300 | dB | Pass | |
| REFERENCE LEVEL SWITCHING (Relative to -10 dBm) | | | | | | | |
| 10 dB Steps | | | | | | | |
| 0 dBm | | 9.979 | 9.850 | 10.150 | dB | Pass | |
| -20 dBm | | -10.017 | -10.150 | -9.850 | dB | Pass | |
| -30 dBm | | -20.015 | -20.150 | -19.850 | dB | Pass | |
| -40 dBm | | -30.014 | -30.150 | -29.850 | dB | Pass | |
| -50 dBm | | -40.001 | -40.150 | -39.850 | dB | Pass | |
| 1 dB Steps | | | | | | | |
| -11 dBm | | -1.000 | -1.150 | -0.850 | dB | Pass | |
| -12 dBm | | -2.003 | -2.150 | -1.850 | dB | Pass | |
| -13 dBm | | -3.004 | -3.150 | -2.850 | dB | Pass | |
| -14 dBm | | -4.002 | -4.150 | -3.850 | dB | Pass | |
| -15 dBm | | -5.003 | -5.150 | -4.850 | dB | Pass | |
| -16 dBm | | -6.002 | -6.150 | -5.850 | dB | Pass | |
| -17 dBm | | -7.006 | -7.150 | -6.850 | dB | Pass | |
| -18 dBm | | -8.004 | -8.150 | -7.850 | dB | Pass | |
| -19 dBm | | -9.005 | -9.150 | -8.850 | dB | Pass | |

Test Results

| Test Description | True Value | Test Result | Lower limit | Upper limit | Units | | TUR |
|---|---|---|---|---|---|---|---|
| PHASE NOISE | | | | | | | |
| Offset from 639 MHz | | | | | | | |
| 100 Hz | | -99.24 | -160.00 | -90.00 | dBc/H | Pass | |
| 1 kHz | | -115.15 | -160.00 | -112.00 | dBc/H | Pass | |
| 10 kHz | | -121.46 | -160.00 | -120.00 | dBc/H | Pass | |
| 100 kHz | | -123.43 | -160.00 | -120.00 | dBc/H | Pass | |
| 1 MHz | | -143.47 | -160.00 | -138.00 | dBc/H | Pass | |
| RETURN LOSS | | | | | | | |
| Not Tested | | | | | | | |

***** End of Certificate *****