| | Test Number: 140606 | | Model: RBSXTG-5HacD | | Mikrotik |
|-----------------------|---|-----------------------------------|---|--------------------|--------------------|
| | nna gain in dBi. | n TX power added to the ante | P for calculation. EIRP is based | | MPE Calculator |
| | | | compared to an isotropic radiator | | |
| | | | sity in mW/cm^2 | S = power den | |
| 1 1 | Antenna Gain (dl | | | | |
| dBi to dBd | | | Output Power | | |
| Gain (dBd) | Antenna Gain (dB | 1.00 | Maximum (Watts) | 5785 | Tx Frequency (MHz) |
| cable (dBi) | Antenna minus cable (dl | 30.00 | (dBm) | 0.0 | Cable Loss (dB) |
| cable (dbl) | Anteinia limius caole (ti | 30.00 | (dbiii) | 0.0 | Cable Loss (db) |
| | EIRP = Po(dBM) + Gain (dB) | | 24154.608 | ted ERP (mw) | Calcul |
| EIRP) dBm 40 | Radiated (EIRP) dE | | 39810.717 | ed EIRP (mw) | Calcula |
| | ERP = EIRP - 2.17 dB | | D 4't (C) | | |
| (ERP) dBm 43 | Radiated (ERP) dE | | Power density (S) | tional Limit | Оссир |
| | | | EIRP | mW/cm ² | 5.00000 |
| | | | $=mW/cm^2$ | W/m^2 | 50.00000 |
| | | | 4 p r^2 | Public Limit | |
| | | | () FIRD (W) | mW/cm ² | 1.00000 |
| | | | r (cm) EIRP (mW) | | 10.00000 |
| | 1 1310 (mW/cm2) | y radiation exposure limits per | FCC radio frequen | Will | 10.00000 |
| | Public Limit | Occupational Limit | Frequency (MHz) | | |
| | f/1500 | f/300 | 300-1,500 | | |
| | 1 | 5 | 1,500-10,000 | | |
| | | _ | -, | | |
| | its per 1.1310 | quency radiation exposure limi | FCC radio fr | | |
| | Public Limit | OtitI iit | E | | |
| | 3.856666667 | Occupational Limit 19.28333333 | Frequency (MHz) 300-1,500 (mW/cm2) | | |
| | 38.56666667 | 192.8333333 | 300-1,500 (mw/cm2) | | |
| | 38.30000007 | 5 | 1,500-10,000 (mW/cm2) | | |
| | 10 | 50 | 1,500-10,000 (MW/cm2) | | |
| | 10 | 30 | 1,500 10,000 (********************************* | | |
| Distance Distance | Distance Distance | Distance | S | S | EIRP |
| inches Feet | meter inches | cm | W/m ² | mW/cm ² | milliwatts |
| | 5.00 196.85 | 500.00 | 0.12672 | 0.01267 | 39810.717 |
| | 4.00 157.48 | 400.00 | 0.19800 | 0.01980 | 39810.717 |
| | 3.00 118.11 | 300.00 | 0.35200 | 0.03520 | 39810.717 |
| | 2.00 78.74 | 200.00 | 0.79201 | 0.07920 | 39810.717 |
| 68.90 0.15 | 1.75 68.90 | 175.00 | 1.03446 | 0.10345 | 39810.717 |
| 59.06 0.13 | 1.50 59.06 | 150.00 | 1.40802 | 0.14080 | 39810.717 |
| 39.37 0.08 | 1.00 39.37 | 100.00 | 3.16804 | 0.31680 | 39810.717 |
| 29.53 0.06 | 0.75 29.53 | 75.00 | 5.63206 | 0.56321 | 39810.717 |
| 25.59 0.05 | 0.65 25.59 | 65.00 | 7.49831 | 0.74983 | 39810.717 |
| | 0.60 23.62 | 60.00 | 8.80010 | 0.88001 | 39810.717 |
| | 0.57 22.44 | 57.00 | 9.75080 | 0.97508 | 39810.717 |
| | 0.50 19.69 | 50.00 | 12.67214 | 1.26721 | 39810.717 |
| | 0.40 15.75 | 40.00 | 19.80023 | 1.98002 | 39810.717 |
| | 0.30 11.81 | 30.00 | 35.20040 | 3.52004 | 39810.717 |
| | 0.27 10.63 | 27.00 | 43.45729 | 4.34573 | 39810.717 |
| | 0.26 10.24 | 26.00 | 46.86444 | 4.68644 | 39810.717 |
| 9.84 0.02 | 0.25 9.84 | 25.00 | 50.68858 | 5.06886 | 39810.717 |
| blic Limit Public Lin | Occupational Limit minimum Public Limit | Occupational Limit minimum | | | |
| | Distance minimum | Distance | | | |
| | (cm / inches) distance (meter | (meters) | Frequency (MHz) | | |
| | N/A N/A | N/A | 300-1,500 | | |
| | | | | | |

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 Mikrotikls SIA

Models: RouterBOARD SXTG-5HPacD and RouterBOARD SXTG-5HPacD-SA

Test #: 140606 SN: 4F9B02FBA557/421 FCC ID#: TV7SXTG-5HACD

Test to: CFR47 (15.247)

File: RFExp RBSXTG5HPacD

Date: July 1, 2014

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