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MPE Report

| | |
|-----------------------|---|
| Test Report No. | : 1407FS14 |
| Applicant | : Polk Audio |
| Manufacturer | : Zylux Acoustic Corporation |
| Product Type | : Wi-Fi Network Speaker |
| Trade Name | : Polk Audio |
| Model Numbers | : Omni S2, Omni S2 Rechargeable |
| Date of Received | : Jun. 16, 2014 |
| Test Period | : Jul. 30 ~ Jul. 31, 2014 |
| Date of Issued | : Aug. 01, 2014 |
| Test Specification | : 47 CFR § 2.1091 47 CFR §1.1310 ANSI / IEEE Std.C95.1-1992 H46-2/99-237E CANADA RSS-102 Issue 4 March 2010 |
| Location of Test Lab. | : Chang-an Lab. |

1. The test operations have to be performed with cautious behavior, the test results are as attached.
2. The test results are under chamber environment of A Test Lab Techno Corp. A Test Lab Techno Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples.
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Approved By

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Tested By

: Sky Chou
(Sky Chou)



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1. Description of Equipment under Test (EUT)

| | |
|-----------------------|--|
| Applicant | Polk Audio |
| Applicant Address | 5601 Metro Drive, Baltimore , Maryland , United States, 21215 |
| Manufacturer | Zylux Acoustic Corporation |
| Manufacturer | 3F, 22, Lane 35, Jihu Road Taipei NeiHu Technology Park, Taipei 11492, Taiwan |
| Product Type | Wi-Fi Network Speaker |
| Trade Name | Polk Audio |
| Model Number | Omni S2, Omni S2 Rechargeable |
| Different Description | Omni S2 : (1)This model has not battery and battery charge function. (2)This model use two TX/RX antenna both are METAL STAMPING ANTENNA. Omni S2 Rechargeable: (1)This model has battery and battery charge function. (2)This model use two TX/RX antenna, one is METAL STAMPING ANTENNA and another is External antenna. |
| FCC ID | WLQOMNIS2 |
| IC | 7956A-OMNIS2 |
| Frequency Range | IEEE 802.11b / 802.11g / 802.11n 2.4GHz (20MHz): 2412 ~ 2462 MHz IEEE 802.11n 2.4GHz (40MHz): 2422 ~ 2452 MHz IEEE 802.11a U-NII Band I: 5180 ~ 5240 MHz IEEE 802.11a U-NII Band II-A: 5260 ~ 5320 MHz IEEE 802.11a U-NII Band II-C: 5500 ~ 5700 MHz IEEE 802.11a U-NII Band III: 5745 ~ 5825 MHz IEEE 802.11n 5GHz (20MHz) U-NII Band I: 5180 ~ 5240 MHz IEEE 802.11n 5GHz (20MHz) U-NII Band II-A: 5260 ~ 5320 MHz IEEE 802.11n 5GHz (20MHz) U-NII Band II-C: 5500 ~ 5700 MHz IEEE 802.11n 5GHz (20MHz) U-NII Band III: 5745 ~ 5825 MHz IEEE 802.11n 5GHz (40MHz) U-NII Band I: 5190 ~ 5230 MHz IEEE 802.11n 5GHz (40MHz) U-NII Band II-A: 5270 ~ 5310 MHz IEEE 802.11n 5GHz (40MHz) U-NII Band II-C: 5510 ~ 5670 MHz IEEE 802.11n 5GHz (40MHz) U-NII Band III: 5755 ~ 5795 MHz |



| | | | | | |
|-------------------------------------|--|-------------------|------------------------|-------------------|-----------------|
| Transmit Power (conducted power) | IEEE 802.11b: 0.028 W / 14.40 dBm IEEE 802.11g: 0.024 W / 13.73 dBm IEEE 802.11n 2.4GHz (20MHz): 0.018 W / 12.47 dBm IEEE 802.11n 2.4GHz (40MHz): 0.015 W / 11.88 dBm IEEE 802.11a U-NII Band I: 0.023 W / 13.61 dBm IEEE 802.11a U-NII Band II-A: 0.023 W / 13.60 dBm IEEE 802.11a U-NII Band II-C: 0.017 W / 12.22 dBm IEEE 802.11a U-NII Band III: 0.018 W / 12.49 dBm IEEE 802.11n 5GHz (20MHz) U-NII Band I: 0.015 W / 11.76 dBm IEEE 802.11n 5GHz (20MHz) U-NII Band II-A: 0.014 W / 11.42 dBm IEEE 802.11n 5GHz (20MHz) U-NII Band II-C: 0.011 W / 10.52 dBm IEEE 802.11n 5GHz (20MHz) U-NII Band III: 0.011 W / 10.35 dBm IEEE 802.11n 5GHz (40MHz) U-NII Band I: 0.014 W / 11.47 dBm IEEE 802.11n 5GHz (40MHz) U-NII Band II-A: 0.014 W / 11.39 dBm IEEE 802.11n 5GHz (40MHz) U-NII Band II-C: 0.014 W / 11.41 dBm IEEE 802.11n 5GHz (40MHz) U-NII Band III: 0.011 W / 10.35 dBm | | | | |
| Antenna used | Trade Name | Model Number | Type | 2.4G Max. Gain | 5G Max. Gain |
| | LinkTek | 1029-000080 | EXTERNAL ANTENNA | 2.45 dBi | 2.11 dBi |
| | MAG.LAYERS | MSA-3310-25GC4-A1 | METAL STAMPING ANTENNA | 2.28 dBi | 3.92 dBi |
| RF Evaluation | 0.12 W/m ² | | | | |

The above equipment was tested by A Test Lab Techno Corp. For compliance with the requirements set forth in 47 CFR § 2.1091 & 47 CFR § 1.1310. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties



2. Human Exposure Assessment

Due to the design and installation of this product, it is not possible to conduct SAR evaluation. This is because client either manufactures or supplies the antenna(s) that will be used in the installation of this product. Therefore, this product will be evaluated as a mobile device per 47 CFR §1.1310 titled "Radiofrequency radiation exposure limits", generally referred to as MPE limits.

In 47 CFR § 2.1091, paragraph (b) defines a mobile device as "a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 cm is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. " This product is intended to be installed into a vehicle such that the unit is physically secured at one location. In the installation guide supplied with the product,

Client has made the following statement: "IMPORTANT: To meet the FCC's RF Exposure Guidelines, the antenna should be installed so there is at least 20 cm of separation between the body of the user and nearby persons and the antenna". Based on the installation of the transceiver and the antenna, the transmitters radiating structure is more than 20 cm from the user. Thus, this product is a "mobile device" as defined in section § 2.1091 paragraph (b).

Exposure evaluation

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

Where

S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna.



3. RF Output Power

| Band | Data Rate | CH | Frequency (MHz) | Average Conducted power (dBm) | |
|-----------------------------------|-----------|----|-----------------|-------------------------------|-----------|
| | | | | Antenna 0 | Antenna 1 |
| IEEE 802.11b | 1M | 1 | 2412.0 | 14.40 | 14.30 |
| | | 6 | 2437.0 | 13.71 | 13.61 |
| | | 11 | 2462.0 | 13.75 | 13.65 |
| | 2M | 6 | 2437.0 | 13.66 | 13.57 |
| | 5.5M | 6 | 2437.0 | 13.62 | 13.55 |
| | 11M | 6 | 2437.0 | 13.59 | 13.53 |
| IEEE 802.11g | 6M | 1 | 2412.0 | 13.06 | 12.93 |
| | | 6 | 2437.0 | 13.73 | 13.60 |
| | | 11 | 2462.0 | 13.37 | 13.24 |
| | 9M | 6 | 2437.0 | 13.69 | 13.56 |
| | 12M | 6 | 2437.0 | 13.63 | 13.50 |
| | 18M | 6 | 2437.0 | 13.57 | 13.44 |
| | 24M | 6 | 2437.0 | 13.51 | 13.38 |
| | 36M | 6 | 2437.0 | 13.43 | 13.30 |
| | 48M | 6 | 2437.0 | 13.35 | 13.22 |
| | 54M | 6 | 2437.0 | 13.31 | 13.18 |
| IEEE 802.11n 2.4GHz (20MHz) | 6.5M | 1 | 2412.0 | 12.47 | 12.33 |
| | | 6 | 2437.0 | 12.19 | 12.05 |
| | | 11 | 2462.0 | 12.42 | 12.28 |
| | 13M | 6 | 2437.0 | 12.15 | 12.01 |
| | 19.5M | 6 | 2437.0 | 12.07 | 11.93 |
| | 26M | 6 | 2437.0 | 11.99 | 11.85 |
| | 39M | 6 | 2437.0 | 11.93 | 11.79 |
| | 52M | 6 | 2437.0 | 11.87 | 11.73 |
| | 58.5M | 6 | 2437.0 | 11.81 | 11.67 |
| | 65M | 6 | 2437.0 | 11.77 | 11.63 |
| IEEE 802.11n 2.4GHz (40MHz) | 13.5M | 3 | 2422.0 | 11.88 | 11.72 |
| | | 6 | 2437.0 | 11.68 | 11.52 |
| | | 9 | 2452.0 | 11.20 | 11.04 |
| | 27M | 6 | 2437.0 | 11.64 | 11.48 |
| | 40.5M | 6 | 2437.0 | 11.56 | 11.40 |
| | 54M | 6 | 2437.0 | 11.50 | 11.34 |
| | 81M | 6 | 2437.0 | 11.42 | 11.26 |
| | 108M | 6 | 2437.0 | 11.34 | 11.18 |
| | 121.5M | 6 | 2437.0 | 11.28 | 11.12 |
| | 135M | 6 | 2437.0 | 11.24 | 11.08 |

| Band | Data Rate | CH | Frequency (MHz) | Average Conducted power (dBm) | |
|--------------|-----------|-----|--------------------|----------------------------------|-----------|
| | | | | Antenna 0 | Antenna 1 |
| IEEE 802.11a | 6M | 36 | 5180.0 | 13.35 | 13.20 |
| | | 40 | 5200.0 | 13.61 | 13.59 |
| | | 44 | 5220.0 | 13.20 | 13.05 |
| | | 48 | 5240.0 | 13.34 | 13.19 |
| | | 52 | 5260.0 | 13.60 | 13.46 |
| | | 56 | 5280.0 | 13.52 | 13.38 |
| | | 60 | 5300.0 | 13.08 | 12.94 |
| | | 64 | 5320.0 | 12.25 | 12.11 |
| | | 100 | 5500.0 | 12.10 | 12.02 |
| | | 104 | 5520.0 | 12.05 | 11.97 |
| | | 108 | 5540.0 | 12.14 | 12.06 |
| | | 112 | 5560.0 | 12.09 | 12.01 |
| | | 116 | 5580.0 | 12.04 | 11.96 |
| | | 120 | 5600.0 | 11.84 | 11.76 |
| | | 124 | 5620.0 | 11.83 | 11.75 |
| | | 128 | 5640.0 | 11.81 | 11.73 |
| | | 132 | 5660.0 | 11.85 | 11.77 |
| | | 136 | 5680.0 | 11.78 | 11.70 |
| | | 140 | 5700.0 | 12.22 | 12.14 |
| | | 149 | 5745.0 | 11.81 | 11.67 |
| | | 153 | 5765.0 | 12.00 | 11.86 |
| | | 157 | 5785.0 | 12.49 | 12.35 |
| | | 161 | 5805.0 | 11.76 | 11.62 |
| | | 165 | 5825.0 | 11.66 | 11.52 |

| Band | Data Rate | CH | Frequency (MHz) | Average Conducted power (dBm) | |
|--------------|-----------|-----|-----------------|-------------------------------|-----------|
| | | | | Antenna 0 | Antenna 1 |
| IEEE 802.11a | 54M | 36 | 5180.0 | 13.23 | 13.09 |
| | | 40 | 5200.0 | 13.58 | 13.53 |
| | | 44 | 5220.0 | 13.08 | 12.94 |
| | | 48 | 5240.0 | 13.22 | 13.08 |
| | | 52 | 5260.0 | 13.49 | 13.35 |
| | | 56 | 5280.0 | 13.41 | 13.27 |
| | | 60 | 5300.0 | 12.97 | 12.83 |
| | | 64 | 5320.0 | 12.14 | 12.00 |
| | | 100 | 5500.0 | 11.97 | 11.91 |
| | | 104 | 5520.0 | 11.92 | 11.86 |
| | | 108 | 5540.0 | 12.01 | 11.95 |
| | | 112 | 5560.0 | 12.01 | 11.90 |
| | | 116 | 5580.0 | 11.96 | 11.85 |
| | | 120 | 5600.0 | 11.76 | 11.65 |
| | | 124 | 5620.0 | 11.75 | 11.64 |
| | | 128 | 5640.0 | 11.73 | 11.72 |
| | | 132 | 5660.0 | 11.77 | 11.66 |
| | | 136 | 5680.0 | 11.70 | 11.62 |
| | | 140 | 5700.0 | 12.09 | 12.03 |
| | | 149 | 5745.0 | 11.70 | 11.54 |
| | | 153 | 5765.0 | 11.89 | 11.73 |
| | | 157 | 5785.0 | 12.38 | 12.22 |
| | | 161 | 5805.0 | 11.65 | 11.59 |
| | | 165 | 5825.0 | 11.55 | 11.51 |

| Band | Data Rate | CH | Frequency (MHz) | Average Conducted power (dBm) | |
|---------------------------------|-----------|-----|--------------------|----------------------------------|-----------|
| | | | | Antenna 0 | Antenna 1 |
| IEEE 802.11n 5GHz (20MHz) | 6.5M | 36 | 5180.0 | 11.28 | 11.21 |
| | | 40 | 5200.0 | 11.76 | 11.69 |
| | | 44 | 5220.0 | 11.61 | 11.54 |
| | | 48 | 5240.0 | 11.49 | 11.42 |
| | | 52 | 5260.0 | 11.42 | 11.32 |
| | | 56 | 5280.0 | 11.34 | 11.24 |
| | | 60 | 5300.0 | 10.18 | 10.08 |
| | | 64 | 5320.0 | 9.83 | 9.79 |
| | | 100 | 5500.0 | 10.52 | 10.43 |
| | | 104 | 5520.0 | 10.43 | 10.34 |
| | | 108 | 5540.0 | 10.48 | 10.39 |
| | | 112 | 5560.0 | 10.38 | 10.29 |
| | | 116 | 5580.0 | 10.06 | 9.97 |
| | | 120 | 5600.0 | 10.48 | 10.39 |
| | | 124 | 5620.0 | 10.39 | 10.30 |
| | | 128 | 5640.0 | 10.42 | 10.33 |
| | | 132 | 5660.0 | 10.29 | 10.20 |
| | | 136 | 5680.0 | 10.02 | 9.93 |
| | | 140 | 5700.0 | 9.91 | 9.86 |
| | | 149 | 5745.0 | 9.67 | 9.61 |
| | | 153 | 5765.0 | 9.88 | 9.82 |
| | | 157 | 5785.0 | 9.92 | 9.86 |
| | | 161 | 5805.0 | 10.11 | 10.05 |
| | | 165 | 5825.0 | 10.35 | 10.29 |

| Band | Data Rate | CH | Frequency (MHz) | Average Conducted power (dBm) | |
|---------------------------------|-----------|-----|-----------------|-------------------------------|-----------|
| | | | | Antenna 0 | Antenna 1 |
| IEEE 802.11n 5GHz (20MHz) | 65M | 36 | 5180.0 | 11.18 | 11.11 |
| | | 40 | 5200.0 | 11.66 | 11.59 |
| | | 44 | 5220.0 | 11.51 | 11.44 |
| | | 48 | 5240.0 | 11.39 | 11.32 |
| | | 52 | 5260.0 | 11.29 | 11.19 |
| | | 56 | 5280.0 | 11.21 | 11.11 |
| | | 60 | 5300.0 | 10.05 | 9.95 |
| | | 64 | 5320.0 | 9.85 | 9.79 |
| | | 100 | 5500.0 | 10.40 | 10.37 |
| | | 104 | 5520.0 | 10.31 | 10.28 |
| | | 108 | 5540.0 | 10.36 | 10.33 |
| | | 112 | 5560.0 | 10.26 | 10.23 |
| | | 116 | 5580.0 | 9.94 | 9.91 |
| | | 120 | 5600.0 | 10.36 | 10.33 |
| | | 124 | 5620.0 | 10.27 | 10.24 |
| | | 128 | 5640.0 | 10.30 | 10.27 |
| | | 132 | 5660.0 | 10.17 | 10.14 |
| | | 136 | 5680.0 | 9.90 | 9.87 |
| | | 140 | 5700.0 | 9.89 | 9.82 |
| | | 149 | 5745.0 | 9.57 | 9.55 |
| | | 153 | 5765.0 | 9.78 | 9.76 |
| | | 157 | 5785.0 | 9.82 | 9.80 |
| | | 161 | 5805.0 | 10.01 | 9.99 |
| | | 165 | 5825.0 | 10.25 | 10.23 |

| Band | Data Rate | CH | Frequency (MHz) | Average Conducted power (dBm) | |
|---------------------------------|-----------|-----|-----------------|-------------------------------|-----------|
| | | | | Antenna 0 | Antenna 1 |
| IEEE 802.11n 5GHz (40MHz) | 6.5M | 38 | 5190.0 | 11.10 | 10.99 |
| | | 46 | 5230.0 | 11.47 | 11.36 |
| | | 54 | 5270.0 | 11.39 | 11.26 |
| | | 62 | 5310.0 | 10.13 | 10.00 |
| | | 102 | 5510.0 | 11.11 | 10.98 |
| | | 110 | 5550.0 | 11.41 | 11.28 |
| | | 118 | 5590.0 | 10.87 | 10.74 |
| | | 126 | 5630.0 | 11.05 | 10.92 |
| | | 134 | 5670.0 | 10.84 | 10.71 |
| | | 151 | 5755.0 | 10.14 | 10.01 |
| | | 159 | 5795.0 | 10.35 | 10.22 |
| | 65M | 38 | 5190.0 | 10.99 | 10.91 |
| | | 46 | 5230.0 | 11.36 | 11.28 |
| | | 54 | 5270.0 | 11.26 | 11.15 |
| | | 62 | 5310.0 | 10.00 | 9.89 |
| | | 102 | 5510.0 | 11.00 | 10.89 |
| | | 110 | 5550.0 | 11.30 | 11.19 |
| | | 118 | 5590.0 | 10.76 | 10.65 |
| | | 126 | 5630.0 | 10.94 | 10.83 |
| | | 134 | 5670.0 | 10.73 | 10.62 |
| | | 151 | 5755.0 | 10.02 | 9.93 |
| | | 159 | 5795.0 | 10.23 | 10.14 |



4. Test Result

Model: Omni S2

| Antenna 0 | | | | | | | | | | |
|-----------------------------------|-----------|-----------------|-----------------------------|-------------------|---|----------------|------------------------|------------|-------------------------------------|---|
| Band | Data Rate | Frequency (MHz) | Limit (mw/cm ²) | Distance (cm) [R] | Max Tune-up Power (upper limit) (dBm) [P] | ANT Gain (dBi) | Numeric Gain [G] (dBi) | Duty Cycle | [P] x [G] With Duty Cycle (mW) [TP] | Power Density [S] (mw/cm ²) |
| IEEE 802.11b | 1 M | 2412 | 1.000 | 20 | 14.5 | 2.28 | 1.69 | 1 | 47.63 | 0.009 |
| | | 2437 | 1.000 | 20 | 14.5 | 2.28 | 1.69 | 1 | 47.63 | 0.009 |
| | | 2462 | 1.000 | 20 | 14.5 | 2.28 | 1.69 | 1 | 47.63 | 0.009 |
| IEEE 802.11g | 6 M | 2412 | 1.000 | 20 | 14.0 | 2.28 | 1.69 | 1 | 42.45 | 0.008 |
| | | 2437 | 1.000 | 20 | 14.0 | 2.28 | 1.69 | 1 | 42.45 | 0.008 |
| | | 2462 | 1.000 | 20 | 14.0 | 2.28 | 1.69 | 1 | 42.45 | 0.008 |
| IEEE 802.11n 2.4GHz (20MHz) | 6.5 M | 2412 | 1.000 | 20 | 12.5 | 2.28 | 1.69 | 1 | 30.05 | 0.006 |
| | | 2437 | 1.000 | 20 | 12.5 | 2.28 | 1.69 | 1 | 30.05 | 0.006 |
| | | 2462 | 1.000 | 20 | 12.5 | 2.28 | 1.69 | 1 | 30.05 | 0.006 |
| IEEE 802.11n 2.4GHz (40MHz) | 13.5 M | 2422 | 1.000 | 20 | 12.0 | 2.28 | 1.69 | 1 | 26.78 | 0.005 |
| | | 2437 | 1.000 | 20 | 12.0 | 2.28 | 1.69 | 1 | 26.78 | 0.005 |
| | | 2452 | 1.000 | 20 | 12.0 | 2.28 | 1.69 | 1 | 26.78 | 0.005 |

Note: The Numeric Gain calculated by $10^{(\text{ant. Gain(dBi)} / 10)}$.

| Antenna 0 | | | | | | | | | | |
|--------------|-----------|-----------------|-----------------------------|-------------------|---|----------------|------------------------|------------|-------------------------------------|---|
| Band | Data Rate | Frequency (MHz) | Limit (mw/cm ²) | Distance (cm) [R] | Max Tune-up Power (upper limit) (dBm) [P] | ANT Gain (dBi) | Numeric Gain [G] (dBi) | Duty Cycle | [P] x [G] With Duty Cycle (mW) [TP] | Power Density [S] (mw/cm ²) |
| IEEE 802.11a | 6M | 5180 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5200 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5220 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5240 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5260 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5280 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5300 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5320 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5500 | 1.000 | 20 | 13.0 | 3.92 | 2.47 | 1 | 49.28 | 0.010 |
| | | 5520 | 1.000 | 20 | 13.0 | 3.92 | 2.47 | 1 | 49.28 | 0.010 |
| | | 5540 | 1.000 | 20 | 13.0 | 3.92 | 2.47 | 1 | 49.28 | 0.010 |
| | | 5560 | 1.000 | 20 | 13.0 | 3.92 | 2.47 | 1 | 49.28 | 0.010 |
| | | 5580 | 1.000 | 20 | 13.0 | 3.92 | 2.47 | 1 | 49.28 | 0.010 |
| | | 5600 | 1.000 | 20 | 13.0 | 3.92 | 2.47 | 1 | 49.28 | 0.010 |
| | | 5620 | 1.000 | 20 | 13.0 | 3.92 | 2.47 | 1 | 49.28 | 0.010 |
| | | 5640 | 1.000 | 20 | 13.0 | 3.92 | 2.47 | 1 | 49.28 | 0.010 |
| | | 5660 | 1.000 | 20 | 13.0 | 3.92 | 2.47 | 1 | 49.28 | 0.010 |
| | | 5680 | 1.000 | 20 | 13.0 | 3.92 | 2.47 | 1 | 49.28 | 0.010 |
| | | 5700 | 1.000 | 20 | 13.0 | 3.92 | 2.47 | 1 | 49.28 | 0.010 |
| | | 5745 | 1.000 | 20 | 13.0 | 3.92 | 2.47 | 1 | 49.28 | 0.010 |
| | | 5765 | 1.000 | 20 | 13.0 | 3.92 | 2.47 | 1 | 49.28 | 0.010 |
| | | 5785 | 1.000 | 20 | 13.0 | 3.92 | 2.47 | 1 | 49.28 | 0.010 |
| | | 5805 | 1.000 | 20 | 13.0 | 3.92 | 2.47 | 1 | 49.28 | 0.010 |
| | | 5825 | 1.000 | 20 | 13.0 | 3.92 | 2.47 | 1 | 49.28 | 0.010 |

Note: The Numeric Gain calculated by $10^{(\text{ant. Gain(dBi)} / 10)}$.



| Antenna 0 | | | | | | | | | | |
|---------------------------|-----------|-----------------|-----------------------------|-------------------|---|----------------|------------------------|------------|-------------------------------------|---|
| Band | Data Rate | Frequency (MHz) | Limit (mw/cm ²) | Distance (cm) [R] | Max Tune-up Power (upper limit) (dBm) [P] | ANT Gain (dBi) | Numeric Gain [G] (dBi) | Duty Cycle | [P] x [G] With Duty Cycle (mW) [TP] | Power Density [S] (mw/cm ²) |
| IEEE 802.11n 5GHz (20MHz) | 6.5M | 5180 | 1.000 | 20 | 11.8 | 3.92 | 2.47 | 1 | 37.38 | 0.007 |
| | | 5200 | 1.000 | 20 | 11.8 | 3.92 | 2.47 | 1 | 37.38 | 0.007 |
| | | 5220 | 1.000 | 20 | 11.8 | 3.92 | 2.47 | 1 | 37.38 | 0.007 |
| | | 5240 | 1.000 | 20 | 11.8 | 3.92 | 2.47 | 1 | 37.38 | 0.007 |
| | | 5260 | 1.000 | 20 | 11.8 | 3.92 | 2.47 | 1 | 37.38 | 0.007 |
| | | 5280 | 1.000 | 20 | 11.8 | 3.92 | 2.47 | 1 | 37.38 | 0.007 |
| | | 5300 | 1.000 | 20 | 11.8 | 3.92 | 2.47 | 1 | 37.38 | 0.007 |
| | | 5320 | 1.000 | 20 | 11.8 | 3.92 | 2.47 | 1 | 37.38 | 0.007 |
| | | 5500 | 1.000 | 20 | 10.6 | 3.92 | 2.47 | 1 | 28.36 | 0.006 |
| | | 5520 | 1.000 | 20 | 10.6 | 3.92 | 2.47 | 1 | 28.36 | 0.006 |
| | | 5540 | 1.000 | 20 | 10.6 | 3.92 | 2.47 | 1 | 28.36 | 0.006 |
| | | 5560 | 1.000 | 20 | 10.6 | 3.92 | 2.47 | 1 | 28.36 | 0.006 |
| | | 5580 | 1.000 | 20 | 10.6 | 3.92 | 2.47 | 1 | 28.36 | 0.006 |
| | | 5600 | 1.000 | 20 | 10.6 | 3.92 | 2.47 | 1 | 28.36 | 0.006 |
| | | 5620 | 1.000 | 20 | 10.6 | 3.92 | 2.47 | 1 | 28.36 | 0.006 |
| | | 5640 | 1.000 | 20 | 10.6 | 3.92 | 2.47 | 1 | 28.36 | 0.006 |
| | | 5660 | 1.000 | 20 | 10.6 | 3.92 | 2.47 | 1 | 28.36 | 0.006 |
| | | 5680 | 1.000 | 20 | 10.6 | 3.92 | 2.47 | 1 | 28.36 | 0.006 |
| | | 5700 | 1.000 | 20 | 10.6 | 3.92 | 2.47 | 1 | 28.36 | 0.006 |
| | | 5745 | 1.000 | 20 | 10.6 | 3.92 | 2.47 | 1 | 28.36 | 0.006 |
| | | 5765 | 1.000 | 20 | 10.6 | 3.92 | 2.47 | 1 | 28.36 | 0.006 |
| | | 5785 | 1.000 | 20 | 10.6 | 3.92 | 2.47 | 1 | 28.36 | 0.006 |
| | | 5805 | 1.000 | 20 | 10.6 | 3.92 | 2.47 | 1 | 28.36 | 0.006 |
| | | 5825 | 1.000 | 20 | 10.6 | 3.92 | 2.47 | 1 | 28.36 | 0.006 |

Note: The Numeric Gain calculated by $10^{(\text{ant. Gain(dBi)} / 10)}$.

| Antenna 0 | | | | | | | | | | |
|---------------------------|-----------|-----------------|-----------------------------|-------------------|---|----------------|------------------------|------------|-------------------------------------|---|
| Band | Data Rate | Frequency (MHz) | Limit (mw/cm ²) | Distance (cm) [R] | Max Tune-up Power (upper limit) (dBm) [P] | ANT Gain (dBi) | Numeric Gain [G] (dBi) | Duty Cycle | [P] x [G] With Duty Cycle (mW) [TP] | Power Density [S] (mw/cm ²) |
| IEEE 802.11n 5GHz (40MHz) | 6.5M | 5190 | 1.000 | 20 | 12.0 | 3.92 | 2.47 | 1 | 39.15 | 0.008 |
| | | 5230 | 1.000 | 20 | 12.0 | 3.92 | 2.47 | 1 | 39.15 | 0.008 |
| | | 5270 | 1.000 | 20 | 12.0 | 3.92 | 2.47 | 1 | 39.15 | 0.008 |
| | | 5310 | 1.000 | 20 | 12.0 | 3.92 | 2.47 | 1 | 39.15 | 0.008 |
| | | 5510 | 1.000 | 20 | 12.0 | 3.92 | 2.47 | 1 | 39.15 | 0.008 |
| | | 5550 | 1.000 | 20 | 12.0 | 3.92 | 2.47 | 1 | 39.15 | 0.008 |
| | | 5590 | 1.000 | 20 | 12.0 | 3.92 | 2.47 | 1 | 39.15 | 0.008 |
| | | 5630 | 1.000 | 20 | 12.0 | 3.92 | 2.47 | 1 | 39.15 | 0.008 |
| | | 5670 | 1.000 | 20 | 12.0 | 3.92 | 2.47 | 1 | 39.15 | 0.008 |
| | | 5755 | 1.000 | 20 | 12.0 | 3.92 | 2.47 | 1 | 39.15 | 0.008 |
| | | 5795 | 1.000 | 20 | 12.0 | 3.92 | 2.47 | 1 | 39.15 | 0.008 |

| Antenna 1 | | | | | | | | | | |
|-----------------------------|-----------|-----------------|-----------------------------|-------------------|-----------------------------|----------------|------------------------|------------|-------------------------------------|---|
| Band | Data Rate | Frequency (MHz) | Limit (mw/cm ²) | Distance (cm) [R] | Max Tune-up power (dBm) [P] | ANT Gain (dBi) | Numeric Gain [G] (dBi) | Duty Cycle | [P] x [G] With Duty Cycle (mW) [TP] | Power Density [S] (mw/cm ²) |
| IEEE 802.11b | 1 M | 2412 | 1.000 | 20 | 14.5 | 2.28 | 1.69 | 1 | 47.63 | 0.009 |
| | | 2437 | 1.000 | 20 | 14.5 | 2.28 | 1.69 | 1 | 47.63 | 0.009 |
| | | 2462 | 1.000 | 20 | 14.5 | 2.28 | 1.69 | 1 | 47.63 | 0.009 |
| IEEE 802.11g | 6 M | 2412 | 1.000 | 20 | 14.0 | 2.28 | 1.69 | 1 | 42.45 | 0.008 |
| | | 2437 | 1.000 | 20 | 14.0 | 2.28 | 1.69 | 1 | 42.45 | 0.008 |
| | | 2462 | 1.000 | 20 | 14.0 | 2.28 | 1.69 | 1 | 42.45 | 0.008 |
| IEEE 802.11n 2.4GHz (20MHz) | 6.5 M | 2412 | 1.000 | 20 | 12.5 | 2.28 | 1.69 | 1 | 30.05 | 0.006 |
| | | 2437 | 1.000 | 20 | 12.5 | 2.28 | 1.69 | 1 | 30.05 | 0.006 |
| | | 2462 | 1.000 | 20 | 12.5 | 2.28 | 1.69 | 1 | 30.05 | 0.006 |
| IEEE 802.11n 2.4GHz (40MHz) | 13.5 M | 2422 | 1.000 | 20 | 12.0 | 2.28 | 1.69 | 1 | 26.78 | 0.005 |
| | | 2437 | 1.000 | 20 | 12.0 | 2.28 | 1.69 | 1 | 26.78 | 0.005 |
| | | 2452 | 1.000 | 20 | 12.0 | 2.28 | 1.69 | 1 | 26.78 | 0.005 |

Note: The Numeric Gain calculated by $10^{(\text{ant. Gain(dBi)} / 10)}$.

| Antenna 1 | | | | | | | | | | |
|--------------|-----------|-----------------|-----------------------------|-------------------|-----------------------------|----------------|------------------------|------------|-------------------------------------|---|
| Band | Data Rate | Frequency (MHz) | Limit (mw/cm ²) | Distance (cm) [R] | Max Tune-up power (dBm) [P] | ANT Gain (dBi) | Numeric Gain [G] (dBi) | Duty Cycle | [P] x [G] With Duty Cycle (mW) [TP] | Power Density [S] (mw/cm ²) |
| IEEE 802.11a | 6M | 5180 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5200 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5220 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5240 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5260 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5280 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5300 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5320 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5500 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5520 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5540 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5560 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5580 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5600 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5620 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5640 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5660 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5680 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5700 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5745 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5765 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5785 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5805 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5825 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |

Note: The Numeric Gain calculated by $10^{(\text{ant. Gain(dBi)} / 10)}$.

| Antenna 1 | | | | | | | | | | |
|--------------|-----------|-----------------|-----------------------------|-------------------|-----------------------------|----------------|------------------------|------------|-------------------------------------|---|
| Band | Data Rate | Frequency (MHz) | Limit (mw/cm ²) | Distance (cm) [R] | Max Tune-up power (dBm) [P] | ANT Gain (dBi) | Numeric Gain [G] (dBi) | Duty Cycle | [P] x [G] With Duty Cycle (mW) [TP] | Power Density [S] (mw/cm ²) |
| IEEE 802.11a | 6.5M | 5180 | 1.000 | 20 | 11.7 | 3.92 | 2.47 | 1 | 36.53 | 0.007 |
| | | 5200 | 1.000 | 20 | 11.7 | 3.92 | 2.47 | 1 | 36.53 | 0.007 |
| | | 5220 | 1.000 | 20 | 11.7 | 3.92 | 2.47 | 1 | 36.53 | 0.007 |
| | | 5240 | 1.000 | 20 | 11.7 | 3.92 | 2.47 | 1 | 36.53 | 0.007 |
| | | 5260 | 1.000 | 20 | 11.7 | 3.92 | 2.47 | 1 | 36.53 | 0.007 |
| | | 5280 | 1.000 | 20 | 11.7 | 3.92 | 2.47 | 1 | 36.53 | 0.007 |
| | | 5300 | 1.000 | 20 | 11.7 | 3.92 | 2.47 | 1 | 36.53 | 0.007 |
| | | 5320 | 1.000 | 20 | 11.7 | 3.92 | 2.47 | 1 | 36.53 | 0.007 |
| | | 5500 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5520 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5540 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5560 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5580 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5600 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5620 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5640 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5660 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5680 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5700 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5745 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5765 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5785 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5805 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5825 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |

Note: The Numeric Gain calculated by $10^{(\text{ant. Gain(dBi)} / 10)}$.

| Antenna 1 | | | | | | | | | | |
|---------------------------------|-----------|-----------------|-----------------------------|-------------------|-----------------------------|----------------|------------------------|------------|-------------------------------------|---|
| Band | Data Rate | Frequency (MHz) | Limit (mw/cm ²) | Distance (cm) [R] | Max Tune-up power (dBm) [P] | ANT Gain (dBi) | Numeric Gain [G] (dBi) | Duty Cycle | [P] x [G] With Duty Cycle (mW) [TP] | Power Density [S] (mw/cm ²) |
| IEEE 802.11n 5GHz (40MHz) | 6.5M | 5190 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5230 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5270 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5310 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5510 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5550 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5590 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5630 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5670 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5755 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5795 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |

Note: The Numeric Gain calculated by $10^{(\text{ant. Gain(dBi)} / 10)}$.



Model: Omni S2 Rechargeable

| Antenna 0 | | | | | | | | | | |
|-----------------------------|-----------|-----------------|-----------------------------|-------------------|---|----------------|------------------------|------------|-------------------------------------|---|
| Band | Data Rate | Frequency (MHz) | Limit (mw/cm ²) | Distance (cm) [R] | Max Tune-up Power (upper limit) (dBm) [P] | ANT Gain (dBi) | Numeric Gain [G] (dBi) | Duty Cycle | [P] x [G] With Duty Cycle (mW) [TP] | Power Density [S] (mw/cm ²) |
| IEEE 802.11b | 1 M | 2412 | 1.000 | 20 | 14.5 | 2.45 | 1.76 | 1 | 49.60 | 0.010 |
| | | 2437 | 1.000 | 20 | 14.5 | 2.45 | 1.76 | 1 | 49.60 | 0.010 |
| | | 2462 | 1.000 | 20 | 14.5 | 2.45 | 1.76 | 1 | 49.60 | 0.010 |
| IEEE 802.11g | 6 M | 2412 | 1.000 | 20 | 14.0 | 2.45 | 1.76 | 1 | 44.21 | 0.009 |
| | | 2437 | 1.000 | 20 | 14.0 | 2.45 | 1.76 | 1 | 44.21 | 0.009 |
| | | 2462 | 1.000 | 20 | 14.0 | 2.45 | 1.76 | 1 | 44.21 | 0.009 |
| IEEE 802.11n 2.4GHz (20MHz) | 6.5 M | 2412 | 1.000 | 20 | 12.5 | 2.45 | 1.76 | 1 | 31.30 | 0.006 |
| | | 2437 | 1.000 | 20 | 12.5 | 2.45 | 1.76 | 1 | 31.30 | 0.006 |
| | | 2462 | 1.000 | 20 | 12.5 | 2.45 | 1.76 | 1 | 31.30 | 0.006 |
| IEEE 802.11n 2.4GHz (40MHz) | 13.5 M | 2422 | 1.000 | 20 | 12.0 | 2.45 | 1.76 | 1 | 27.89 | 0.006 |
| | | 2437 | 1.000 | 20 | 12.0 | 2.45 | 1.76 | 1 | 27.89 | 0.006 |
| | | 2452 | 1.000 | 20 | 12.0 | 2.45 | 1.76 | 1 | 27.89 | 0.006 |

Note: The Numeric Gain calculated by $10^{(\text{ant. Gain(dBi)} / 10)}$.

| Antenna 0 | | | | | | | | | | |
|--------------|-----------|-----------------|-----------------------------|-------------------|---|----------------|------------------------|------------|-------------------------------------|---|
| Band | Data Rate | Frequency (MHz) | Limit (mw/cm ²) | Distance (cm) [R] | Max Tune-up Power (upper limit) (dBm) [P] | ANT Gain (dBi) | Numeric Gain [G] (dBi) | Duty Cycle | [P] x [G] With Duty Cycle (mW) [TP] | Power Density [S] (mw/cm ²) |
| IEEE 802.11a | 6M | 5180 | 1.000 | 20 | 14.0 | 2.11 | 1.63 | 1 | 40.94 | 0.008 |
| | | 5200 | 1.000 | 20 | 14.0 | 2.11 | 1.63 | 1 | 40.94 | 0.008 |
| | | 5220 | 1.000 | 20 | 14.0 | 2.11 | 1.63 | 1 | 40.94 | 0.008 |
| | | 5240 | 1.000 | 20 | 14.0 | 2.11 | 1.63 | 1 | 40.94 | 0.008 |
| | | 5260 | 1.000 | 20 | 14.0 | 2.11 | 1.63 | 1 | 40.94 | 0.008 |
| | | 5280 | 1.000 | 20 | 14.0 | 2.11 | 1.63 | 1 | 40.94 | 0.008 |
| | | 5300 | 1.000 | 20 | 14.0 | 2.11 | 1.63 | 1 | 40.94 | 0.008 |
| | | 5320 | 1.000 | 20 | 14.0 | 2.11 | 1.63 | 1 | 40.94 | 0.008 |
| | | 5500 | 1.000 | 20 | 13.0 | 2.11 | 1.63 | 1 | 32.52 | 0.006 |
| | | 5520 | 1.000 | 20 | 13.0 | 2.11 | 1.63 | 1 | 32.52 | 0.006 |
| | | 5540 | 1.000 | 20 | 13.0 | 2.11 | 1.63 | 1 | 32.52 | 0.006 |
| | | 5560 | 1.000 | 20 | 13.0 | 2.11 | 1.63 | 1 | 32.52 | 0.006 |
| | | 5580 | 1.000 | 20 | 13.0 | 2.11 | 1.63 | 1 | 32.52 | 0.006 |
| | | 5600 | 1.000 | 20 | 13.0 | 2.11 | 1.63 | 1 | 32.52 | 0.006 |
| | | 5620 | 1.000 | 20 | 13.0 | 2.11 | 1.63 | 1 | 32.52 | 0.006 |
| | | 5640 | 1.000 | 20 | 13.0 | 2.11 | 1.63 | 1 | 32.52 | 0.006 |
| | | 5660 | 1.000 | 20 | 13.0 | 2.11 | 1.63 | 1 | 32.52 | 0.006 |
| | | 5680 | 1.000 | 20 | 13.0 | 2.11 | 1.63 | 1 | 32.52 | 0.006 |
| | | 5700 | 1.000 | 20 | 13.0 | 2.11 | 1.63 | 1 | 32.52 | 0.006 |
| | | 5745 | 1.000 | 20 | 13.0 | 2.11 | 1.63 | 1 | 32.52 | 0.006 |
| | | 5765 | 1.000 | 20 | 13.0 | 2.11 | 1.63 | 1 | 32.52 | 0.006 |
| | | 5785 | 1.000 | 20 | 13.0 | 2.11 | 1.63 | 1 | 32.52 | 0.006 |
| | | 5805 | 1.000 | 20 | 13.0 | 2.11 | 1.63 | 1 | 32.52 | 0.006 |
| | | 5825 | 1.000 | 20 | 13.0 | 2.11 | 1.63 | 1 | 32.52 | 0.006 |

Note: The Numeric Gain calculated by $10^{(\text{ant. Gain(dBi)} / 10)}$.

| Antenna 0 | | | | | | | | | | |
|---------------------------|-----------|-----------------|-----------------------------|-------------------|---|----------------|------------------------|------------|-------------------------------------|---|
| Band | Data Rate | Frequency (MHz) | Limit (mw/cm ²) | Distance (cm) [R] | Max Tune-up Power (upper limit) (dBm) [P] | ANT Gain (dBi) | Numeric Gain [G] (dBi) | Duty Cycle | [P] x [G] With Duty Cycle (mW) [TP] | Power Density [S] (mw/cm ²) |
| IEEE 802.11n 5GHz (20MHz) | 6.5M | 5180 | 1.000 | 20 | 11.8 | 2.11 | 1.63 | 1 | 24.67 | 0.005 |
| | | 5200 | 1.000 | 20 | 11.8 | 2.11 | 1.63 | 1 | 24.67 | 0.005 |
| | | 5220 | 1.000 | 20 | 11.8 | 2.11 | 1.63 | 1 | 24.67 | 0.005 |
| | | 5240 | 1.000 | 20 | 11.8 | 2.11 | 1.63 | 1 | 24.67 | 0.005 |
| | | 5260 | 1.000 | 20 | 11.8 | 2.11 | 1.63 | 1 | 24.67 | 0.005 |
| | | 5280 | 1.000 | 20 | 11.8 | 2.11 | 1.63 | 1 | 24.67 | 0.005 |
| | | 5300 | 1.000 | 20 | 11.8 | 2.11 | 1.63 | 1 | 24.67 | 0.005 |
| | | 5320 | 1.000 | 20 | 11.8 | 2.11 | 1.63 | 1 | 24.67 | 0.005 |
| | | 5500 | 1.000 | 20 | 10.6 | 2.11 | 1.63 | 1 | 18.71 | 0.004 |
| | | 5520 | 1.000 | 20 | 10.6 | 2.11 | 1.63 | 1 | 18.71 | 0.004 |
| | | 5540 | 1.000 | 20 | 10.6 | 2.11 | 1.63 | 1 | 18.71 | 0.004 |
| | | 5560 | 1.000 | 20 | 10.6 | 2.11 | 1.63 | 1 | 18.71 | 0.004 |
| | | 5580 | 1.000 | 20 | 10.6 | 2.11 | 1.63 | 1 | 18.71 | 0.004 |
| | | 5600 | 1.000 | 20 | 10.6 | 2.11 | 1.63 | 1 | 18.71 | 0.004 |
| | | 5620 | 1.000 | 20 | 10.6 | 2.11 | 1.63 | 1 | 18.71 | 0.004 |
| | | 5640 | 1.000 | 20 | 10.6 | 2.11 | 1.63 | 1 | 18.71 | 0.004 |
| | | 5660 | 1.000 | 20 | 10.6 | 2.11 | 1.63 | 1 | 18.71 | 0.004 |
| | | 5680 | 1.000 | 20 | 10.6 | 2.11 | 1.63 | 1 | 18.71 | 0.004 |
| | | 5700 | 1.000 | 20 | 10.6 | 2.11 | 1.63 | 1 | 18.71 | 0.004 |
| | | 5745 | 1.000 | 20 | 10.6 | 2.11 | 1.63 | 1 | 18.71 | 0.004 |
| | | 5765 | 1.000 | 20 | 10.6 | 2.11 | 1.63 | 1 | 18.71 | 0.004 |
| | | 5785 | 1.000 | 20 | 10.6 | 2.11 | 1.63 | 1 | 18.71 | 0.004 |
| | | 5805 | 1.000 | 20 | 10.6 | 2.11 | 1.63 | 1 | 18.71 | 0.004 |
| | | 5825 | 1.000 | 20 | 10.6 | 2.11 | 1.63 | 1 | 18.71 | 0.004 |

Note: The Numeric Gain calculated by $10^{(\text{ant. Gain(dBi)} / 10)}$.

| Antenna 0 | | | | | | | | | | |
|---------------------------|-----------|-----------------|-----------------------------|-------------------|---|----------------|------------------------|------------|-------------------------------------|---|
| Band | Data Rate | Frequency (MHz) | Limit (mw/cm ²) | Distance (cm) [R] | Max Tune-up Power (upper limit) (dBm) [P] | ANT Gain (dBi) | Numeric Gain [G] (dBi) | Duty Cycle | [P] x [G] With Duty Cycle (mW) [TP] | Power Density [S] (mw/cm ²) |
| IEEE 802.11n 5GHz (40MHz) | 6.5M | 5190 | 1.000 | 20 | 12.0 | 2.11 | 1.63 | 1 | 25.83 | 0.005 |
| | | 5230 | 1.000 | 20 | 12.0 | 2.11 | 1.63 | 1 | 25.83 | 0.005 |
| | | 5270 | 1.000 | 20 | 12.0 | 2.11 | 1.63 | 1 | 25.83 | 0.005 |
| | | 5310 | 1.000 | 20 | 12.0 | 2.11 | 1.63 | 1 | 25.83 | 0.005 |
| | | 5510 | 1.000 | 20 | 12.0 | 2.11 | 1.63 | 1 | 25.83 | 0.005 |
| | | 5550 | 1.000 | 20 | 12.0 | 2.11 | 1.63 | 1 | 25.83 | 0.005 |
| | | 5590 | 1.000 | 20 | 12.0 | 2.11 | 1.63 | 1 | 25.83 | 0.005 |
| | | 5630 | 1.000 | 20 | 12.0 | 2.11 | 1.63 | 1 | 25.83 | 0.005 |
| | | 5670 | 1.000 | 20 | 12.0 | 2.11 | 1.63 | 1 | 25.83 | 0.005 |
| | | 5755 | 1.000 | 20 | 12.0 | 2.11 | 1.63 | 1 | 25.83 | 0.005 |
| | | 5795 | 1.000 | 20 | 12.0 | 2.11 | 1.63 | 1 | 25.83 | 0.005 |

| Antenna 1 | | | | | | | | | | |
|-----------------------------|-----------|-----------------|-----------------------------|-------------------|-----------------------------|----------------|------------------------|------------|-------------------------------------|---|
| Band | Data Rate | Frequency (MHz) | Limit (mw/cm ²) | Distance (cm) [R] | Max Tune-up power (dBm) [P] | ANT Gain (dBi) | Numeric Gain [G] (dBi) | Duty Cycle | [P] x [G] With Duty Cycle (mW) [TP] | Power Density [S] (mw/cm ²) |
| IEEE 802.11b | 1 M | 2412 | 1.000 | 20 | 14.5 | 2.28 | 1.69 | 1 | 47.63 | 0.009 |
| | | 2437 | 1.000 | 20 | 14.5 | 2.28 | 1.69 | 1 | 47.63 | 0.009 |
| | | 2462 | 1.000 | 20 | 14.5 | 2.28 | 1.69 | 1 | 47.63 | 0.009 |
| IEEE 802.11g | 6 M | 2412 | 1.000 | 20 | 14.0 | 2.28 | 1.69 | 1 | 42.45 | 0.008 |
| | | 2437 | 1.000 | 20 | 14.0 | 2.28 | 1.69 | 1 | 42.45 | 0.008 |
| | | 2462 | 1.000 | 20 | 14.0 | 2.28 | 1.69 | 1 | 42.45 | 0.008 |
| IEEE 802.11n 2.4GHz (20MHz) | 6.5 M | 2412 | 1.000 | 20 | 12.5 | 2.28 | 1.69 | 1 | 30.05 | 0.006 |
| | | 2437 | 1.000 | 20 | 12.5 | 2.28 | 1.69 | 1 | 30.05 | 0.006 |
| | | 2462 | 1.000 | 20 | 12.5 | 2.28 | 1.69 | 1 | 30.05 | 0.006 |
| IEEE 802.11n 2.4GHz (40MHz) | 13.5 M | 2422 | 1.000 | 20 | 12.0 | 2.28 | 1.69 | 1 | 26.78 | 0.005 |
| | | 2437 | 1.000 | 20 | 12.0 | 2.28 | 1.69 | 1 | 26.78 | 0.005 |
| | | 2452 | 1.000 | 20 | 12.0 | 2.28 | 1.69 | 1 | 26.78 | 0.005 |

Note: The Numeric Gain calculated by $10^{(\text{ant. Gain(dBi)} / 10)}$.

| Antenna 1 | | | | | | | | | | |
|--------------|-----------|-----------------|-----------------------------|-------------------|-----------------------------|----------------|------------------------|------------|-------------------------------------|---|
| Band | Data Rate | Frequency (MHz) | Limit (mw/cm ²) | Distance (cm) [R] | Max Tune-up power (dBm) [P] | ANT Gain (dBi) | Numeric Gain [G] (dBi) | Duty Cycle | [P] x [G] With Duty Cycle (mW) [TP] | Power Density [S] (mw/cm ²) |
| IEEE 802.11a | 6M | 5180 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5200 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5220 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5240 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5260 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5280 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5300 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5320 | 1.000 | 20 | 14.0 | 3.92 | 2.47 | 1 | 62.04 | 0.012 |
| | | 5500 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5520 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5540 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5560 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5580 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5600 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5620 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5640 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5660 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5680 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5700 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5745 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5765 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5785 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5805 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |
| | | 5825 | 1.000 | 20 | 12.5 | 3.92 | 2.47 | 1 | 43.92 | 0.009 |

| Antenna 1 | | | | | | | | | | |
|--------------|-----------|-----------------|-----------------------------|-------------------|-----------------------------|----------------|------------------------|------------|-------------------------------------|---|
| Band | Data Rate | Frequency (MHz) | Limit (mw/cm ²) | Distance (cm) [R] | Max Tune-up power (dBm) [P] | ANT Gain (dBi) | Numeric Gain [G] (dBi) | Duty Cycle | [P] x [G] With Duty Cycle (mW) [TP] | Power Density [S] (mw/cm ²) |
| IEEE 802.11a | 6.5M | 5180 | 1.000 | 20 | 11.7 | 3.92 | 2.47 | 1 | 36.53 | 0.007 |
| | | 5200 | 1.000 | 20 | 11.7 | 3.92 | 2.47 | 1 | 36.53 | 0.007 |
| | | 5220 | 1.000 | 20 | 11.7 | 3.92 | 2.47 | 1 | 36.53 | 0.007 |
| | | 5240 | 1.000 | 20 | 11.7 | 3.92 | 2.47 | 1 | 36.53 | 0.007 |
| | | 5260 | 1.000 | 20 | 11.7 | 3.92 | 2.47 | 1 | 36.53 | 0.007 |
| | | 5280 | 1.000 | 20 | 11.7 | 3.92 | 2.47 | 1 | 36.53 | 0.007 |
| | | 5300 | 1.000 | 20 | 11.7 | 3.92 | 2.47 | 1 | 36.53 | 0.007 |
| | | 5320 | 1.000 | 20 | 11.7 | 3.92 | 2.47 | 1 | 36.53 | 0.007 |
| | | 5500 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5520 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5540 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5560 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5580 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5600 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5620 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5640 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5660 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5680 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5700 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5745 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5765 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5785 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5805 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |
| | | 5825 | 1.000 | 20 | 10.5 | 3.92 | 2.47 | 1 | 27.71 | 0.006 |

| Antenna 1 | | | | | | | | | | |
|---------------------------------|-----------|-----------------|-----------------------------|-------------------|-----------------------------|----------------|------------------------|------------|-------------------------------------|---|
| Band | Data Rate | Frequency (MHz) | Limit (mw/cm ²) | Distance (cm) [R] | Max Tune-up power (dBm) [P] | ANT Gain (dBi) | Numeric Gain [G] (dBi) | Duty Cycle | [P] x [G] With Duty Cycle (mW) [TP] | Power Density [S] (mw/cm ²) |
| IEEE 802.11n 5GHz (40MHz) | 6.5M | 5190 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5230 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5270 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5310 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5510 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5550 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5590 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5630 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5670 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5755 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |
| | | 5795 | 1.000 | 20 | 11.5 | 3.92 | 2.47 | 1 | 34.89 | 0.007 |