U.S. Amateur Radio RF Exposure Report

20-Meter Dipole Operating at 100 Watts

20-meter dipole positioned on East side of backyard and oriented North-to-South

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20-Meter Dipole Operating at 100 Watts

20-meter dipole positioned on East side of backyard and oriented North-to-South

Transmission Watts: **100.0**

Mode Duty Factor (%): **50.0**

Multi-Band Group: **MF/HF**

Band Frequency Position: **Highest**

Gain (dBi): **2.2**

Ground Reflection: **True**

Transmit Time (min.): **1.000**

Receive Time (min.): **1.000**

U.S. Amateur Radio Band (meters)	Band Transmission Frequency (MHz)	Controlled Maximum Power Density (mW/cm²)	Controlled Compliance Distance (feet)	Uncontrolled Maximum Power Density (mW/cm²)	Uncontrolled Compliance Distance (feet)
160	2.000	100.00	0.30	45.00	0.45
80	4.000	56.25	0.40	11.25	0.90
60	5.404	30.82	0.54	6.17	1.22
40	7.300	16.89	0.73	3.38	1.64
30	10.150	8.74	1.02	1.75	2.28
20	14.350	4.37	1.44	0.87	3.23
17	18.168	2.73	1.83	0.55	4.09
15	21.450	1.96	2.16	0.39	4.82
12	24.990	1.44	2.51	0.29	5.62
10	29.700	1.02	2.99	0.20	6.68
6	54.000	1.00	3.02	0.20	6.75

RF Exposure Computation Report

A frequency from each band in the Multi-Band Group you selected (e.g., MF/HF or VHF/UHF) has been computed. Each frequency and the computations associated with that particular frequency are displayed on individual pages in this report. For more information regarding these calculations and how to interpret them, please refer to the application's manual page at: https://www.rfexposure.com/manual

U.S. Amateur Band (meters): 160

FREQUENCY
* Frequency (MHz): **2.0000**

TRANSMIT-RECEIVE
* Transmit Time (min.): **1.00**
* Receive Time (min.): **1.00**

POWER
(P) Power-PEP (W): **100**
(P) Power (mW): **100,000**
(DF) Duty Factor: **0.50**

ANTENNA GAIN
(G) Antenna Gain (Numeric): 10^(2.2 dBi/10) = **1.6596**

GROUND REFLECTION
(GR) Ground Reflection Multiplier: **0.64**

REFACTORED POWER DENSITY EQUATION FOR MINIMUM SAFE DISTANCE
(R) Radius (cm) = **sqrt((GR x PE x G) / (S x PI))**

CONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.CONTROLLED**
(S) Controlled Maximum Density (mW/cm²): **100.00** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (100.00 x 3.14159)) = **9.1936**
Minimum Compliance Distance: **9.1936 (cm)** **0.3016 (ft)** **0.0919 (m)**

UNCONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.UNCONTROLLED**
(S) Uncontrolled Maximum Density (mW/cm²): **45.00** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (45.00 x 3.14159)) = **13.7050**
Minimum Compliance Distance: **13.7050 (cm)** **0.4496 (ft)** **0.1370 (m)**

U.S. Amateur Band (meters): 80

FREQUENCY
* Frequency (MHz): **4.0000**

TRANSMIT-RECEIVE
* Transmit Time (min.): **1.00**
* Receive Time (min.): **1.00**

POWER
(P) Power-PEP (W): **100**
(P) Power (mW): **100,000**
(DF) Duty Factor: **0.50**

ANTENNA GAIN
(G) Antenna Gain (Numeric): 10^(2.2 dBi/10) = **1.6596**

GROUND REFLECTION
(GR) Ground Reflection Multiplier: **0.64**

REFACTORED POWER DENSITY EQUATION FOR MINIMUM SAFE DISTANCE
(R) Radius (cm) = **sqrt((GR x PE x G) / (S x PI))**

CONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.CONTROLLED**
(S) Controlled Maximum Density (mW/cm²): **56.25** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (56.25 x 3.14159)) = **12.2581**
Minimum Compliance Distance: **12.2581 (cm)** **0.4022 (ft)** **0.1226 (m)**

UNCONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.UNCONTROLLED**
(S) Uncontrolled Maximum Density (mW/cm²): **11.25** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (11.25 x 3.14159)) = **27.4100**
Minimum Compliance Distance: **27.4100 (cm)** **0.8993 (ft)** **0.2741 (m)**

U.S. Amateur Band (meters): 60

FREQUENCY
* Frequency (MHz): **5.4040**

TRANSMIT-RECEIVE
* Transmit Time (min.): **1.00**
* Receive Time (min.): **1.00**

POWER
(P) Power-PEP (W): **100**
(P) Power (mW): **100,000**
(DF) Duty Factor: **0.50**

ANTENNA GAIN
(G) Antenna Gain (Numeric): 10^(2.2 dBi/10) = **1.6596**

GROUND REFLECTION
(GR) Ground Reflection Multiplier: **0.64**

REFACTORED POWER DENSITY EQUATION FOR MINIMUM SAFE DISTANCE
(R) Radius (cm) = **sqrt((GR x PE x G) / (S x PI))**

CONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.CONTROLLED**
(S) Controlled Maximum Density (mW/cm²): **30.82** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (30.82 x 3.14159)) = **16.5592**
Minimum Compliance Distance: **16.5592 (cm)** **0.5433 (ft)** **0.1656 (m)**

UNCONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.UNCONTROLLED**
(S) Uncontrolled Maximum Density (mW/cm²): **6.17** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (6.17 x 3.14159)) = **37.0275**
Minimum Compliance Distance: **37.0275 (cm)** **1.2148 (ft)** **0.3703 (m)**

U.S. Amateur Band (meters): 40

FREQUENCY
* Frequency (MHz): **7.3000**

TRANSMIT-RECEIVE
* Transmit Time (min.): **1.00**
* Receive Time (min.): **1.00**

POWER
(P) Power-PEP (W): **100**
(P) Power (mW): **100,000**
(DF) Duty Factor: **0.50**

ANTENNA GAIN
(G) Antenna Gain (Numeric): 10^(2.2 dBi/10) = **1.6596**

GROUND REFLECTION
(GR) Ground Reflection Multiplier: **0.64**

REFACTORED POWER DENSITY EQUATION FOR MINIMUM SAFE DISTANCE
(R) Radius (cm) = **sqrt((GR x PE x G) / (S x PI))**

CONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.CONTROLLED**
(S) Controlled Maximum Density (mW/cm²): **16.89** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (16.89 x 3.14159)) = **22.3711**
Minimum Compliance Distance: **22.3711 (cm)** **0.7340 (ft)** **0.2237 (m)**

UNCONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.UNCONTROLLED**
(S) Uncontrolled Maximum Density (mW/cm²): **3.38** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (3.38 x 3.14159)) = **50.0232**
Minimum Compliance Distance: **50.0232 (cm)** **1.6412 (ft)** **0.5002 (m)**

U.S. Amateur Band (meters): 30

FREQUENCY
* Frequency (MHz): **10.1500**

TRANSMIT-RECEIVE
* Transmit Time (min.): **1.00**
* Receive Time (min.): **1.00**

POWER
(P) Power-PEP (W): **100**
(P) Power (mW): **100,000**
(DF) Duty Factor: **0.50**

ANTENNA GAIN
(G) Antenna Gain (Numeric): 10^(2.2 dBi/10) = **1.6596**

GROUND REFLECTION
(GR) Ground Reflection Multiplier: **0.64**

REFACTORED POWER DENSITY EQUATION FOR MINIMUM SAFE DISTANCE
(R) Radius (cm) = **sqrt((GR x PE x G) / (S x PI))**

CONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.CONTROLLED**
(S) Controlled Maximum Density (mW/cm²): **8.74** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (8.74 x 3.14159)) = **31.1050**
Minimum Compliance Distance: **31.1050 (cm)** **1.0205 (ft)** **0.3110 (m)**

UNCONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.UNCONTROLLED**
(S) Uncontrolled Maximum Density (mW/cm²): **1.75** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (1.75 x 3.14159)) = **69.5528**
Minimum Compliance Distance: **69.5528 (cm)** **2.2819 (ft)** **0.6955 (m)**

U.S. Amateur Band (meters): 20

FREQUENCY
* Frequency (MHz): **14.3500**

TRANSMIT-RECEIVE
* Transmit Time (min.): **1.00**
* Receive Time (min.): **1.00**

POWER
(P) Power-PEP (W): **100**
(P) Power (mW): **100,000**
(DF) Duty Factor: **0.50**

ANTENNA GAIN
(G) Antenna Gain (Numeric): 10^(2.2 dBi/10) = **1.6596**

GROUND REFLECTION
(GR) Ground Reflection Multiplier: **0.64**

REFACTORED POWER DENSITY EQUATION FOR MINIMUM SAFE DISTANCE
(R) Radius (cm) = **sqrt((GR x PE x G) / (S x PI))**

CONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.CONTROLLED**
(S) Controlled Maximum Density (mW/cm²): **4.37** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (4.37 x 3.14159)) = **43.9760**
Minimum Compliance Distance: **43.9760 (cm)** **1.4428 (ft)** **0.4398 (m)**

UNCONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.UNCONTROLLED**
(S) Uncontrolled Maximum Density (mW/cm²): **0.87** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (0.87 x 3.14159)) = **98.3333**
Minimum Compliance Distance: **98.3333 (cm)** **3.2262 (ft)** **0.9833 (m)**

U.S. Amateur Band (meters): 17

FREQUENCY
* Frequency (MHz): **18.1680**

TRANSMIT-RECEIVE
* Transmit Time (min.): **1.00**
* Receive Time (min.): **1.00**

POWER
(P) Power-PEP (W): **100**
(P) Power (mW): **100,000**
(DF) Duty Factor: **0.50**

ANTENNA GAIN
(G) Antenna Gain (Numeric): 10^(2.2 dBi/10) = **1.6596**

GROUND REFLECTION
(GR) Ground Reflection Multiplier: **0.64**

REFACTORED POWER DENSITY EQUATION FOR MINIMUM SAFE DISTANCE
(R) Radius (cm) = **sqrt((GR x PE x G) / (S x PI))**

CONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.CONTROLLED**
(S) Controlled Maximum Density (mW/cm²): **2.73** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (2.73 x 3.14159)) = **55.6764**
Minimum Compliance Distance: **55.6764 (cm)** **1.8267 (ft)** **0.5568 (m)**

UNCONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.UNCONTROLLED**
(S) Uncontrolled Maximum Density (mW/cm²): **0.55** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (0.55 x 3.14159)) = **124.4962**
Minimum Compliance Distance: **124.4962 (cm)** **4.0845 (ft)** **1.2450 (m)**

U.S. Amateur Band (meters): 15

FREQUENCY
* Frequency (MHz): **21.4500**

TRANSMIT-RECEIVE
* Transmit Time (min.): **1.00**
* Receive Time (min.): **1.00**

POWER
(P) Power-PEP (W): **100**
(P) Power (mW): **100,000**
(DF) Duty Factor: **0.50**

ANTENNA GAIN
(G) Antenna Gain (Numeric): 10^(2.2 dBi/10) = **1.6596**

GROUND REFLECTION
(GR) Ground Reflection Multiplier: **0.64**

REFACTORED POWER DENSITY EQUATION FOR MINIMUM SAFE DISTANCE
(R) Radius (cm) = **sqrt((GR x PE x G) / (S x PI))**

CONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.CONTROLLED**
(S) Controlled Maximum Density (mW/cm²): **1.96** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (1.96 x 3.14159)) = **65.7342**
Minimum Compliance Distance: **65.7342 (cm)** **2.1566 (ft)** **0.6573 (m)**

UNCONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.UNCONTROLLED**
(S) Uncontrolled Maximum Density (mW/cm²): **0.39** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (0.39 x 3.14159)) = **146.9860**
Minimum Compliance Distance: **146.9860 (cm)** **4.8224 (ft)** **1.4699 (m)**

U.S. Amateur Band (meters): 12

FREQUENCY
* Frequency (MHz): **24.9900**

TRANSMIT-RECEIVE
* Transmit Time (min.): **1.00**
* Receive Time (min.): **1.00**

POWER
(P) Power-PEP (W): **100**
(P) Power (mW): **100,000**
(DF) Duty Factor: **0.50**

ANTENNA GAIN
(G) Antenna Gain (Numeric): 10^(2.2 dBi/10) = **1.6596**

GROUND REFLECTION
(GR) Ground Reflection Multiplier: **0.64**

REFACTORED POWER DENSITY EQUATION FOR MINIMUM SAFE DISTANCE
(R) Radius (cm) = **sqrt((GR x PE x G) / (S x PI))**

CONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.CONTROLLED**
(S) Controlled Maximum Density (mW/cm²): **1.44** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (1.44 x 3.14159)) = **76.5826**
Minimum Compliance Distance: **76.5826 (cm)** **2.5126 (ft)** **0.7658 (m)**

UNCONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.UNCONTROLLED**
(S) Uncontrolled Maximum Density (mW/cm²): **0.29** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (0.29 x 3.14159)) = **171.2439**
Minimum Compliance Distance: **171.2439 (cm)** **5.6182 (ft)** **1.7124 (m)**

U.S. Amateur Band (meters): 10

FREQUENCY
* Frequency (MHz): **29.7000**

TRANSMIT-RECEIVE
* Transmit Time (min.): **1.00**
* Receive Time (min.): **1.00**

POWER
(P) Power-PEP (W): **100**
(P) Power (mW): **100,000**
(DF) Duty Factor: **0.50**

ANTENNA GAIN
(G) Antenna Gain (Numeric): 10^(2.2 dBi/10) = **1.6596**

GROUND REFLECTION
(GR) Ground Reflection Multiplier: **0.64**

REFACTORED POWER DENSITY EQUATION FOR MINIMUM SAFE DISTANCE
(R) Radius (cm) = **sqrt((GR x PE x G) / (S x PI))**

CONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.CONTROLLED**
(S) Controlled Maximum Density (mW/cm²): **1.02** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (1.02 x 3.14159)) = **91.0165**
Minimum Compliance Distance: **91.0165 (cm)** **2.9861 (ft)** **0.9102 (m)**

UNCONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.UNCONTROLLED**
(S) Uncontrolled Maximum Density (mW/cm²): **0.20** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (0.20 x 3.14159)) = **203.5191**
Minimum Compliance Distance: **203.5191 (cm)** **6.6771 (ft)** **2.0352 (m)**

U.S. Amateur Band (meters): 6

FREQUENCY
* Frequency (MHz): **54.0000**

TRANSMIT-RECEIVE
* Transmit Time (min.): **1.00**
* Receive Time (min.): **1.00**

POWER
(P) Power-PEP (W): **100**
(P) Power (mW): **100,000**
(DF) Duty Factor: **0.50**

ANTENNA GAIN
(G) Antenna Gain (Numeric): 10^(2.2 dBi/10) = **1.6596**

GROUND REFLECTION
(GR) Ground Reflection Multiplier: **0.64**

REFACTORED POWER DENSITY EQUATION FOR MINIMUM SAFE DISTANCE
(R) Radius (cm) = **sqrt((GR x PE x G) / (S x PI))**

CONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.CONTROLLED**
(S) Controlled Maximum Density (mW/cm²): **1.00** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (1.00 x 3.14159)) = **91.9359**
Minimum Compliance Distance: **91.9359 (cm)** **3.0163 (ft)** **0.9194 (m)**

UNCONTROLLED MINIMUM COMPLIANCE DISTANCE
Control Mode: **ControlMode.UNCONTROLLED**
(S) Uncontrolled Maximum Density (mW/cm²): **0.20** (Lookup Table)
(TR) Transmit Time Ratio: **0.5000**
(PE) Power (Effective) (mW): P x DF x TR = 100,000 x 0.50 x 0.5000 = **25,000**
(R) Radius (cm): sqrt((GR x PE x G) / (S x PI)) = sqrt((0.64 x 25,000 x 1.6596) / (0.20 x 3.14159)) = **205.5749**
Minimum Compliance Distance: **205.5749 (cm)** **6.7446 (ft)** **2.0557 (m)**