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January 8, 2019

Subject: Antenna Kitting

Re: FCC ID: PWO460056

To Whom It May Concern:

The antenna kitting options for model 460056 signal booster were done for 6 Outside Antennas, and 1 Inside Antenna kit option:

Outside Antennas

1	Omni Enterprise 304422 With 20' RG-58	304422-5820
2	Omni Consumer 304421 With 20' RG-58	304421-5820
3	Omni Consumer 304421 With 10' RG-174	304421-17410
4	Omni Consumer 304421 With 30' RG-6	304421-0630
5	Omni Directional Antenna (311203) With 20' RG-58	311203-5820
6	Omni Directional Antenna (311201) With 25' RG-6	311201-0625

Inside Antenna

1	Desktop Antenna 311160 With 13' RG-58	311160-5813
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All equivalent or lesser antennas and cables are suitable for use with 460056 signal booster.

Sincerely,

A handwritten signature in black ink that reads 'Erin Elder' in a cursive script.

Erin Elder

IP & Regulatory Compliance Engineer



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Inside Antenna Kit

Uplink Frequency Band (MHz)	698-716	777-787	824-849	1710-1755	1850-1915
Measured Uplink Gain (dB)	48.9	48.90	49.10	49.60	49.60
Measured RSSI Shutoff (dBm/MHz)	-56.2	-55.70	-56.90	-52.90	-53.10
MSCL Minimum (dB)	26.70	27.20	26.20	30.70	30.50
3' Separation Distance Path Loss (dB)	28.68	29.55	30.14	36.46	37.18
Polarity Loss (dB)	3.0	3.0	3.0	3.0	3.0
Max Antenna Gain Less Cable Loss (dB)	4.98	5.35	6.94	8.76	9.68

Desktop Antenna w/13' RG-58

311160-5813

Antenna Gain Less Cable Loss (dB)	2.7	4.2	4.90	3.9	2.8
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Outside Antenna Kit Options

Final Output Power Limited to 30 dBm EIRP in all frequency bands

Uplink Frequency (MHz)	698-716	777-787	824-849	1710-1755	1850-1915
Uplink Output Power (dBm)	28.3	29.1	29.5	28.5	28.3

Omni Enterprise 304422 With 20' RG-58

304422-5820

Antenna Gains (dBi)	1.3	1.0	1.3	4.8	4.7
Coax Loss (dB)	2.4	2.4	2.7	4.2	4.6
Final Gain less Loss (dB)	-1.1	-1.4	-1.3	0.54	0.0
Output Power plus Final Gain (dBm EIRP)	27.2	27.7	28.2	29.0	28.3

Omni Consumer 304421 With 20' RG-58

304421-5820

Antenna Gains (dBi)	1.9	0.0	1.2	5.1	3.8
Coax Loss (dB)	1.2	1.2	1.3	4.2	2.3
Final Gain less Loss (dB)	0.7	-1.2	-0.2	0.89	1.5
Output Power plus Final Gain (dBm EIRP)	29.0	27.9	29.3	29.4	29.8

Omni Consumer 304421 With 10' RG-174

304421-17410

Antenna Gains (dBi)	1.94	0.02	1.16	5.11	3.81
Coax Loss (dB)	2.75	2.8	3.075	4.96	5.5
Final Gain less Loss (dB)	-0.81	-2.773	-1.915	0.15	-1.704
Output Power plus Final Gain (dBm EIRP)	27.5	26.3	27.6	28.7	26.6

Omni Consumer 304421 With 30' RG-6

304421-0630

Antenna Gains (dBi)	1.9	0.0	1.2	5.1	3.8
Coax Loss (dB)	2.3	2.4	2.6	4.0	4.3
Final Gain less Loss (dB)	-0.4	-2.4	-1.4	1.15	-0.5
Output Power plus Final Gain (dBm EIRP)	27.9	26.8	28.1	29.7	27.8

Omni Directional Antenna (311203) With 20' RG-58

311203-5820

Antenna Gains (dBi)	-1.5	-0.2	0.6	-2.5	5.1
Coax Loss (dB)	2.3	2.5	2.6	4.1	4.3
Final Gain less Loss (dB)	-3.8	-2.7	-2.0	-6.61	0.8
Output Power plus Final Gain (dBm EIRP)	24.5	26.4	27.5	21.9	29.1

Omni Directional Antenna (311201) With 25' RG-6

311201-0625

Antenna Gains (dBi)	-1.5	-0.2	0.6	-2.5	5.1
Coax Loss (dB)	2.0	2.0	2.2	3.3	3.6
Final Gain less Loss (dB)	-3.5	-2.2	-1.6	-5.81	1.5
Output Power plus Final Gain (dBm EIRP)	24.8	26.9	27.9	22.7	29.8