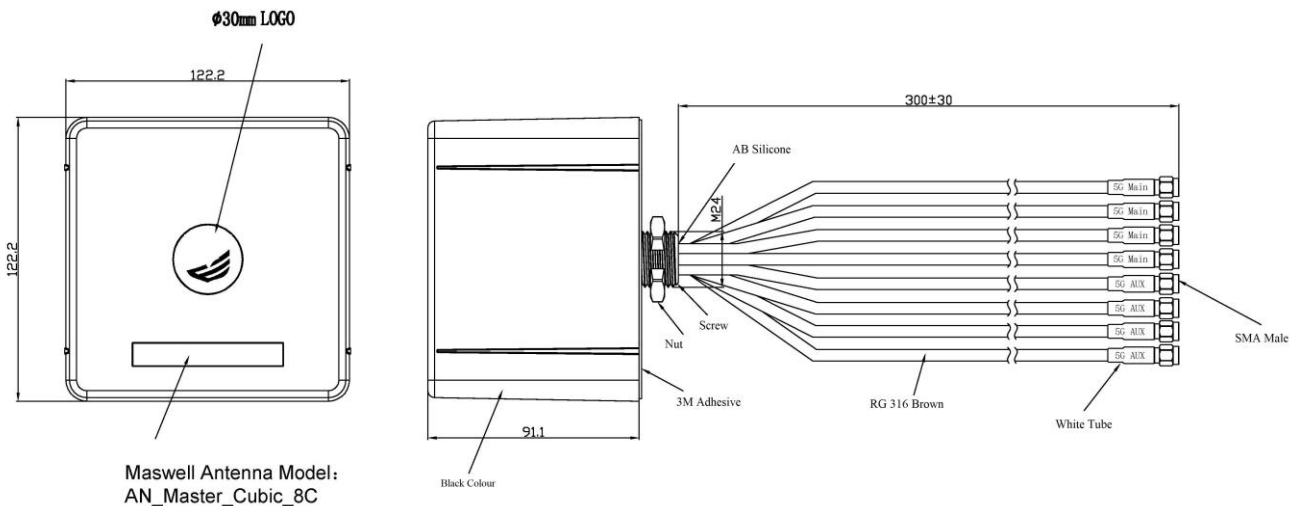


Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP



Schematic Picture



Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

Specifications

| Item | Specifications | |
|--|-------------------|----------------------------------|
| Antenna 1: 5G/4G/WIFI/Bluetooth Main | Frequency Range | 600-8000MHz |
| | Polarization | Linear |
| | Gain | Up to 5.0dBi (20cm Cable Length) |
| | Radiation Pattern | Omni-directional |
| | V.S.W.R | average 3.0 |
| | Efficiency | >50% |
| Antenna 2: 5G/4G/WIFI/Bluetooth Main | Frequency Range | 600-8000MHz |
| | Polarization | Linear |
| | Gain | Up to 5.0dBi (20cm Cable Length) |
| | Radiation Pattern | Omni-directional |
| | V.S.W.R | average 3.0 |
| | Efficiency | >50% |
| Antenna 3: 5G /4G/WIFI/Bluetooth Main | Frequency Range | 600-8000MHz |
| | Polarization | Linear |
| | Gain | Up to 5.0dBi (20cm Cable Length) |
| | Radiation Pattern | Omni-directional |
| | V.S.W.R | average 3.0 |
| | Efficiency | >50% |
| Antenna 4: 5G /4G/WIFI/Bluetooth Main | Frequency Range | 600-8000MHz |
| | Polarization | Linear |
| | Gain | Up to 5.0dBi (20cm Cable Length) |
| | Radiation Pattern | Omni-directional |
| | V.S.W.R | average 3.0 |
| | Efficiency | >50% |
| Antenna 5: 5G /4G/WIFI/Bluetooth AUX | Frequency Range | 720-8000MHz |
| | Polarization | Linear |
| | Gain | 2.0dBi |
| | Radiation Pattern | Omni-directional |
| | V.S.W.R | average 3.0 |
| | Efficiency | >50% |

Maswell Cellular 5G/4G 8X8 MIMO Antenna

Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

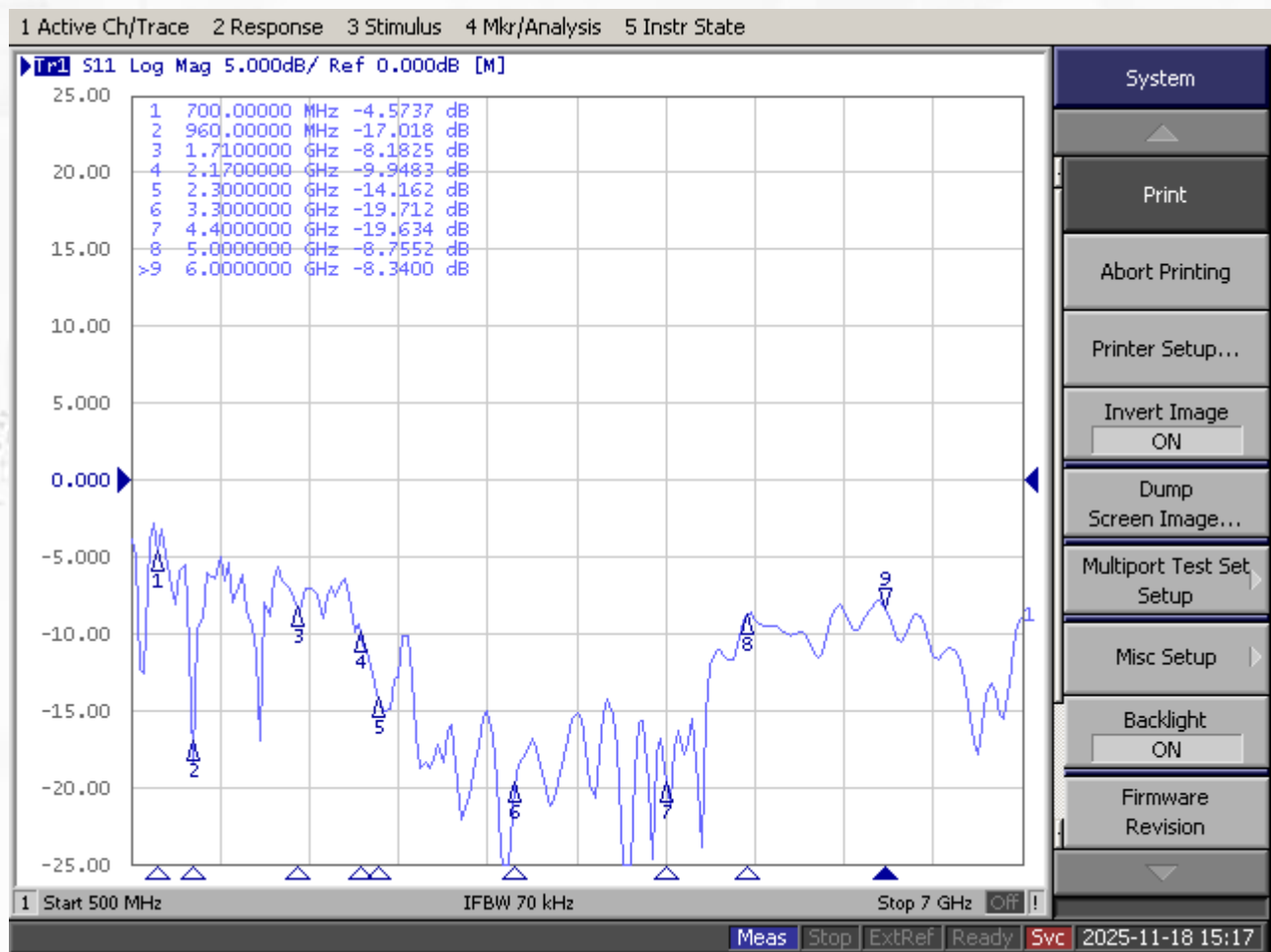
Specifications

| Item | Specifications | |
|---|-------------------------------|---|
| Antenna 6: 5G /4G/WIFI/Bluetooth AUX | Frequency Range | 720-8000MHz |
| | Polarizatio | Linear |
| | Gain | 2.0dBi |
| | Radiation Pattern | Omni-directional |
| | V.S.W.R | average 3.0 |
| | Efficiency | >50% |
| Antenna 7: 5G /4G/WIFI/Bluetooth AUX | Frequency Range | 720-8000MHz |
| | Polarizatio | Linear |
| | Gain | 2.0dBi |
| | Radiation Pattern | Omni-directional |
| | V.S.W.R | average 3.0 |
| | Efficiency | >50% |
| Antenna 8: 5G /4G/WIFI/Bluetooth AUX | Frequency Range | 720-8000MHz |
| | Polarizatio | Linear |
| | Gain | 2.0dBi |
| | Radiation Pattern | Omni-directional |
| | V.S.W.R | average 3.0 |
| | Efficiency | >50% |
| Mechanical | Dimension | 121mm *121mm*91mm |
| | Cable | LMR195 equivalent 2m or Customised |
| | Antenna Mount | L plate (Supplied) U bolt and Screw |
| | Connector | SMA male |
| Environmental | Operating Temperature | -40°C~+85°C |
| | Waterproof Grade | IP67 (EURO: EN 60529:1991+A1:2000+A2:2013+A C:2019 CHINA: GB/T4208-2017) |
| | Radome Material | ASA/ (UL Yellow Card) |
| | UV Exposure & Water Immersion | F1 (UL746C) UV stabilized |
| | Relative Humidity | Up to 95% |
| | Vibration | 10 to 55Hz with 1.5mm amplitude 2hours |
| Suzhou maswell communication technology co.,ltd | Environmentally Friendly | ROHS Compliant |

Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

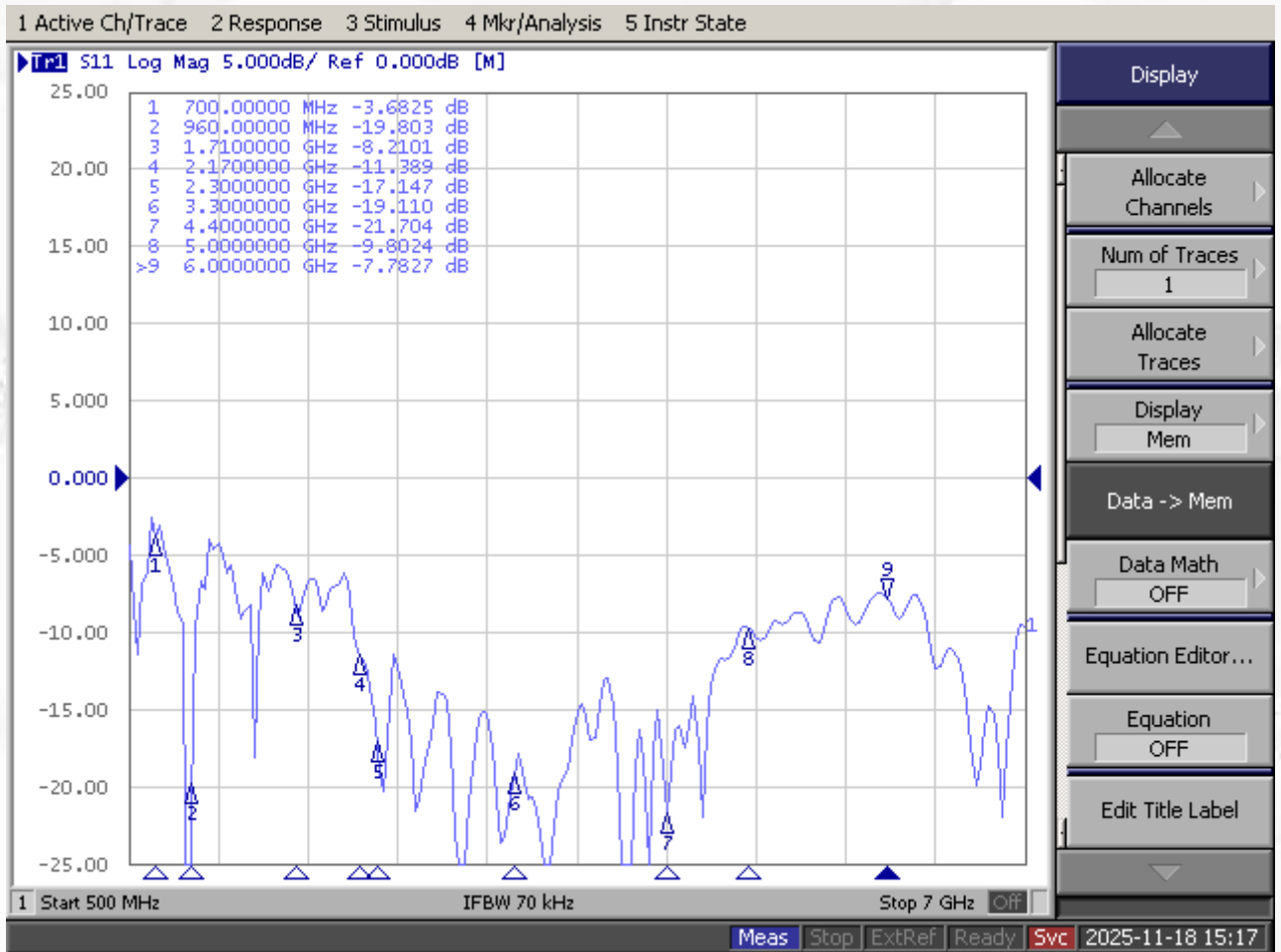
Measured Reflection Coefficient S11



Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

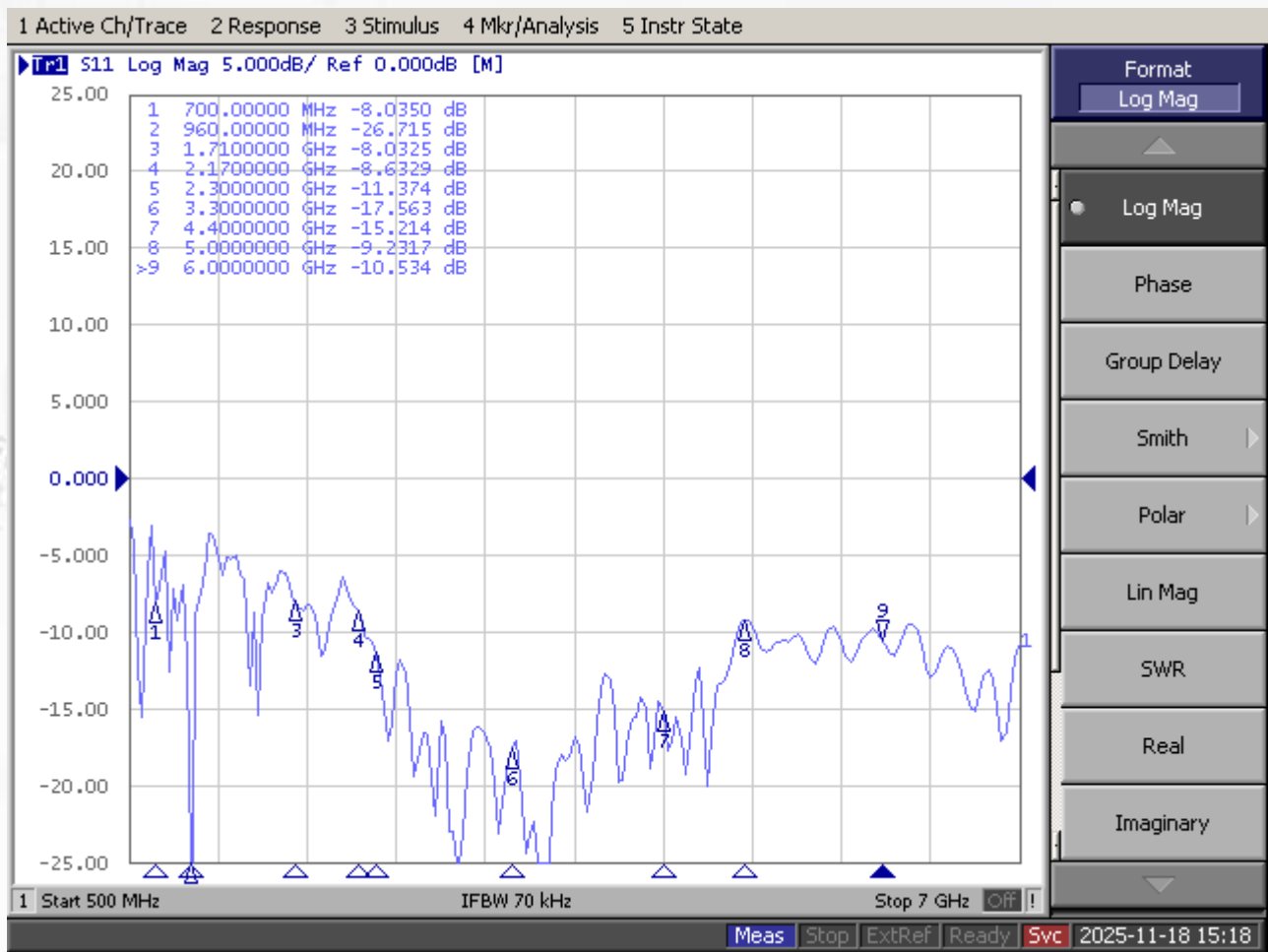
Measured Reflection Coefficient S22



Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

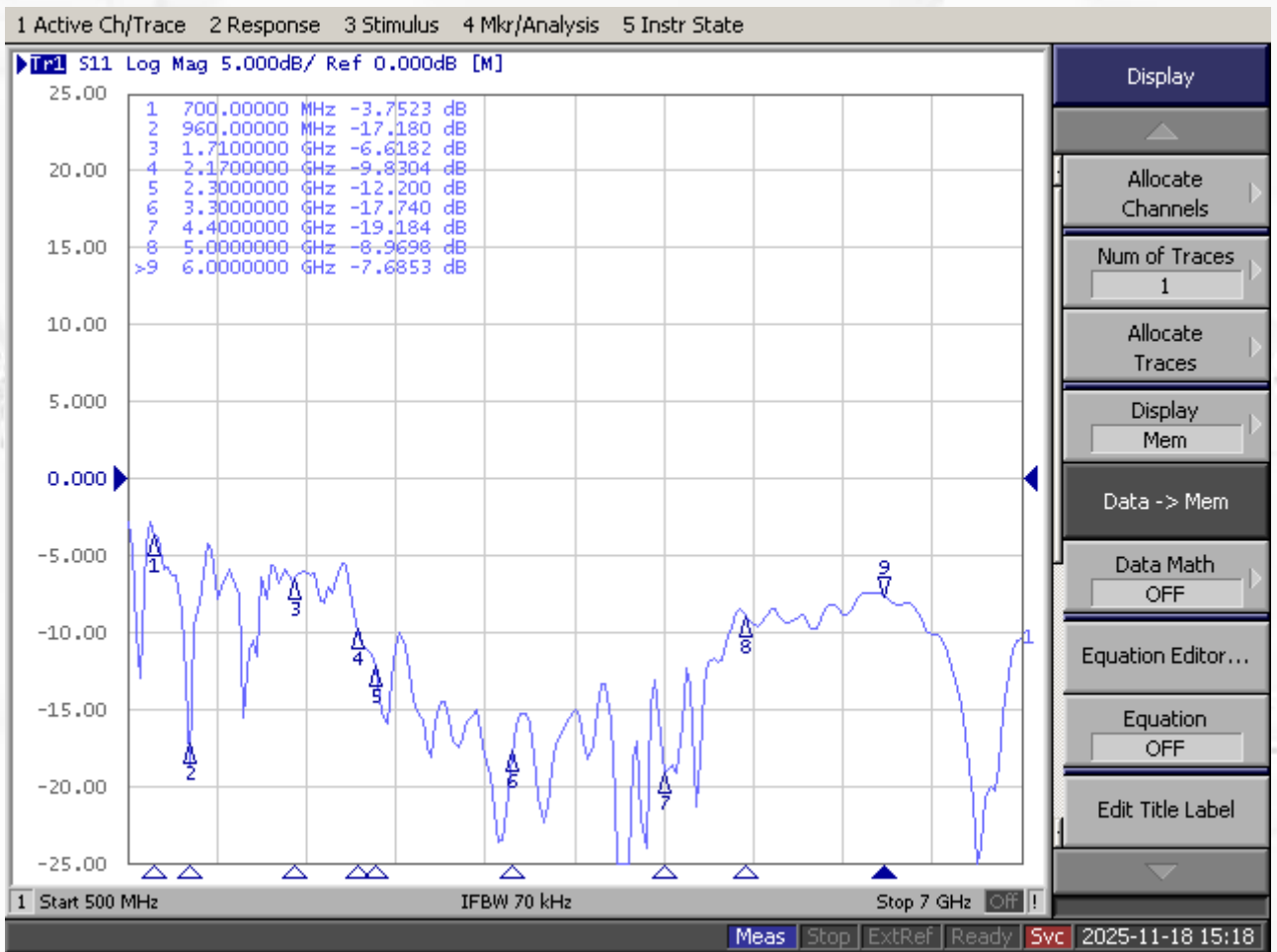
Measured Reflection Coefficient S33



Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

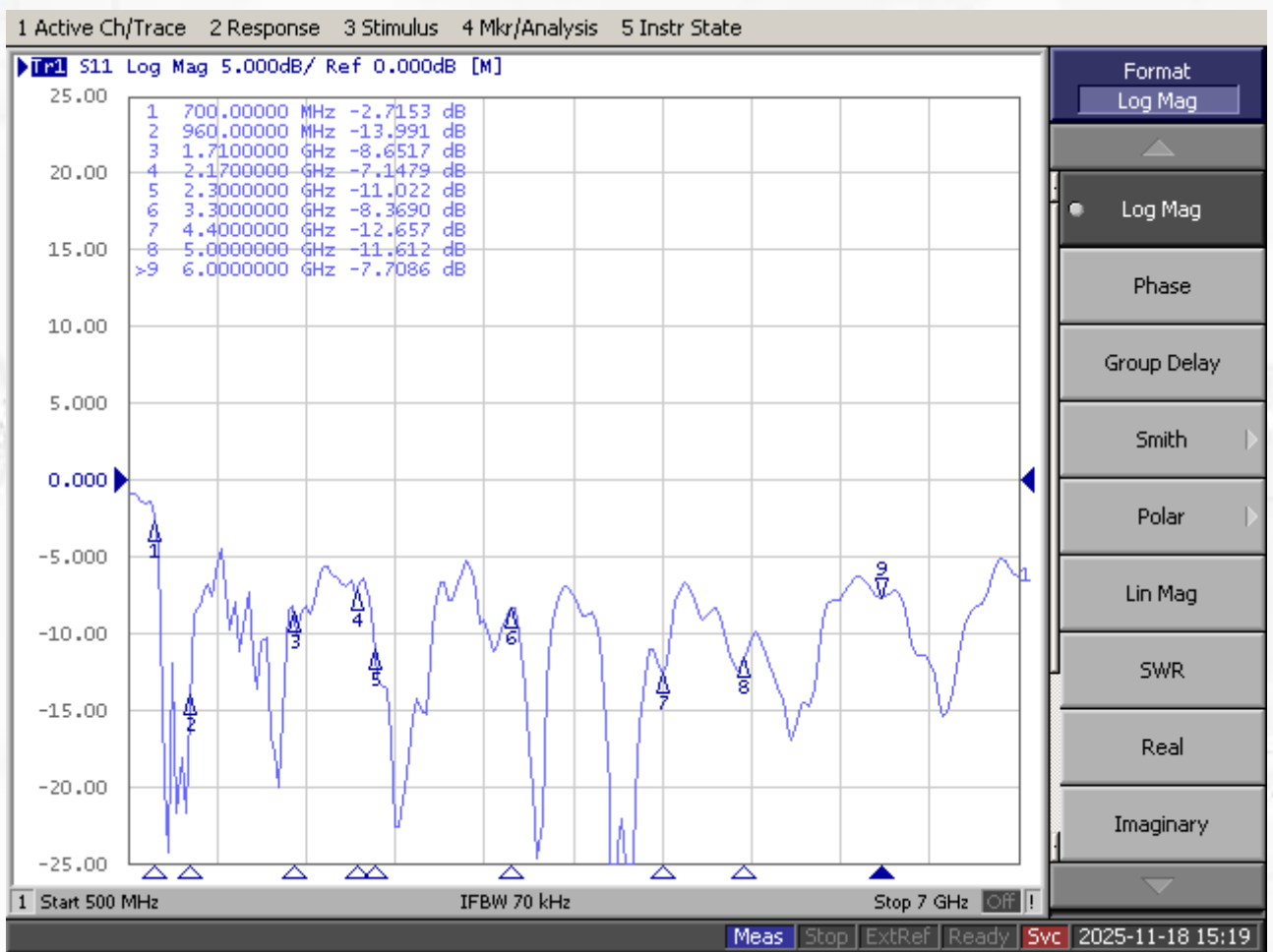
Measured Reflection Coefficient S44



Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

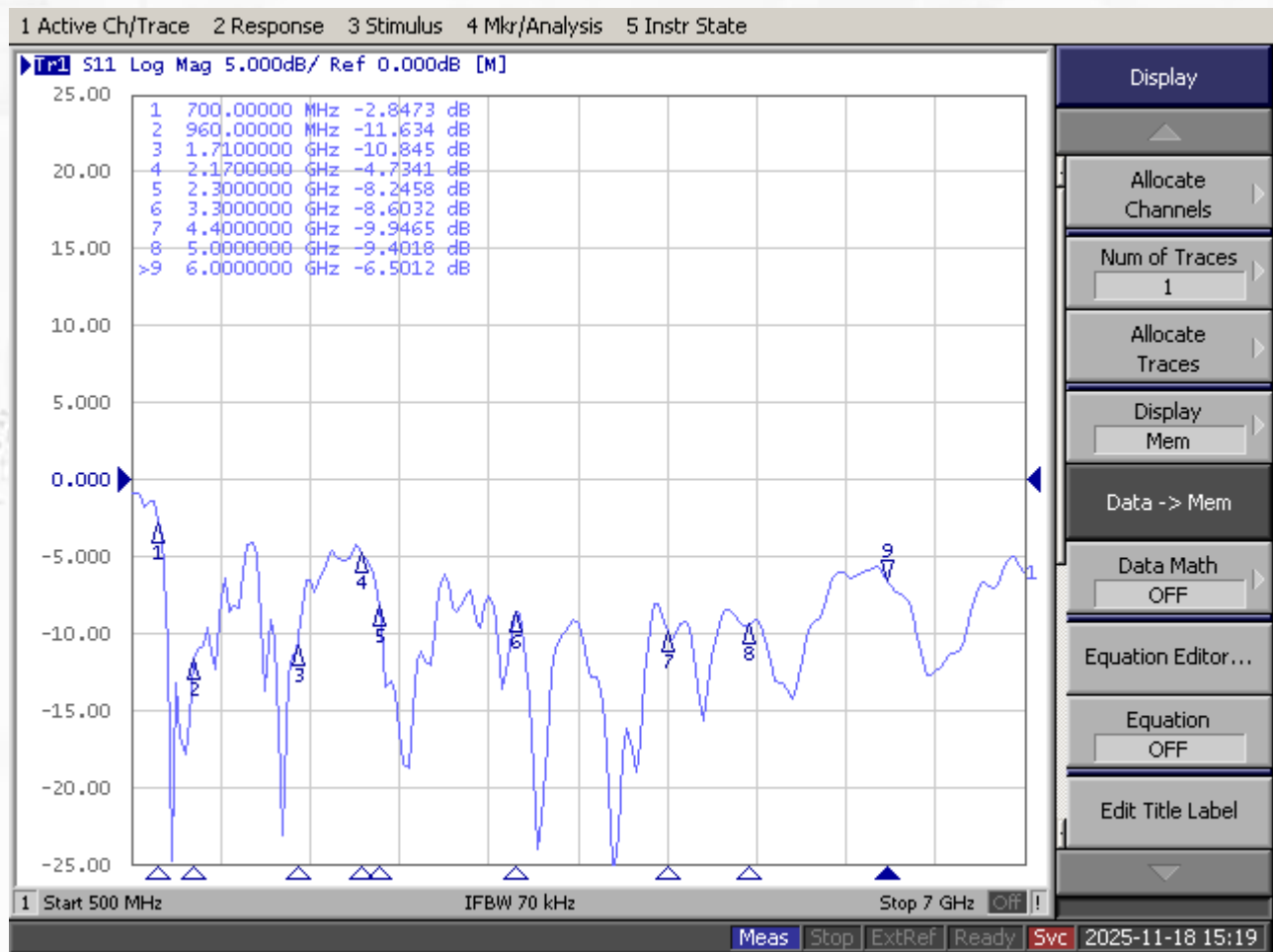
Measured Reflection Coefficient S₁₁



Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

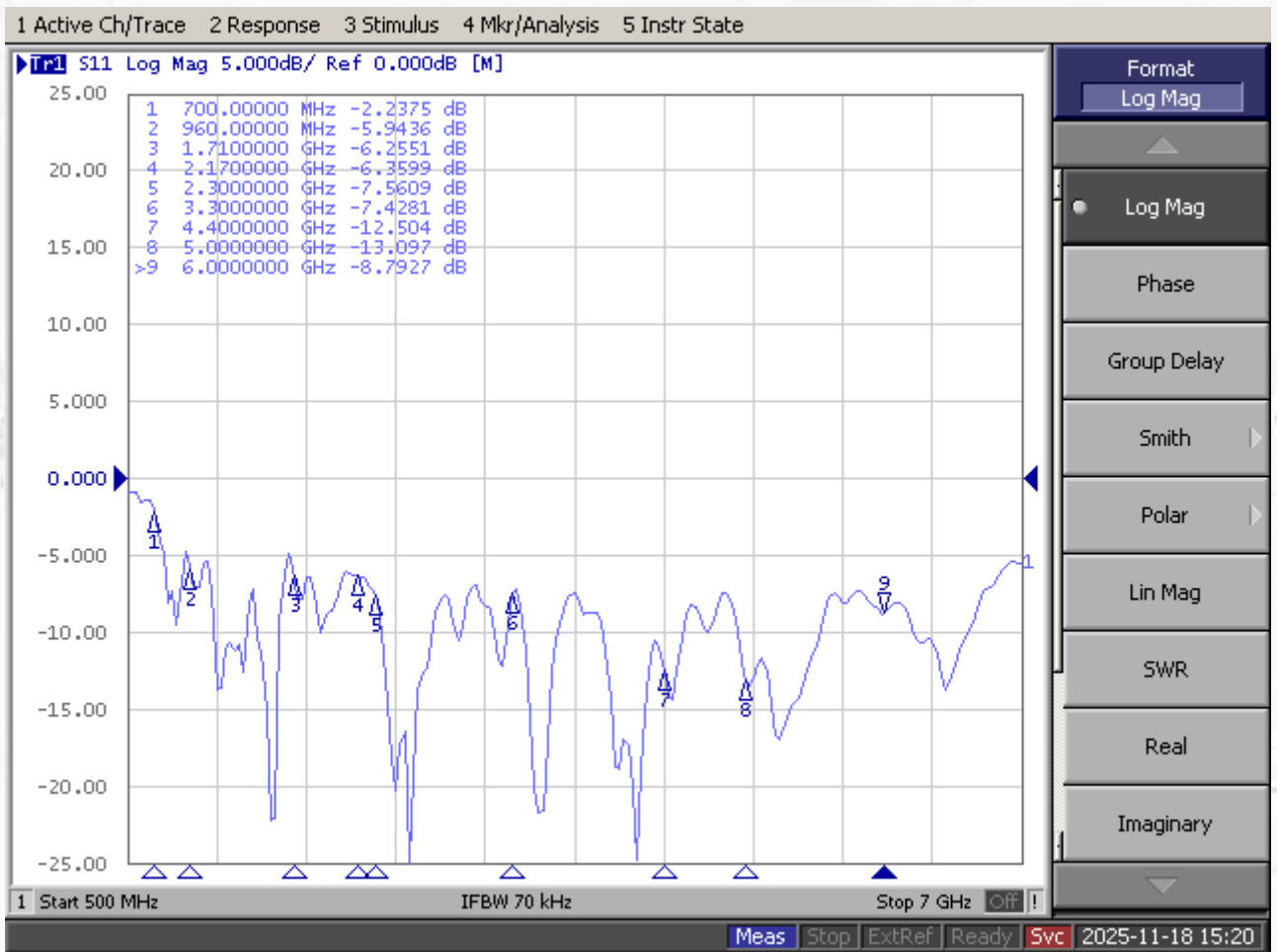
Measured Reflection Coefficient S66



Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

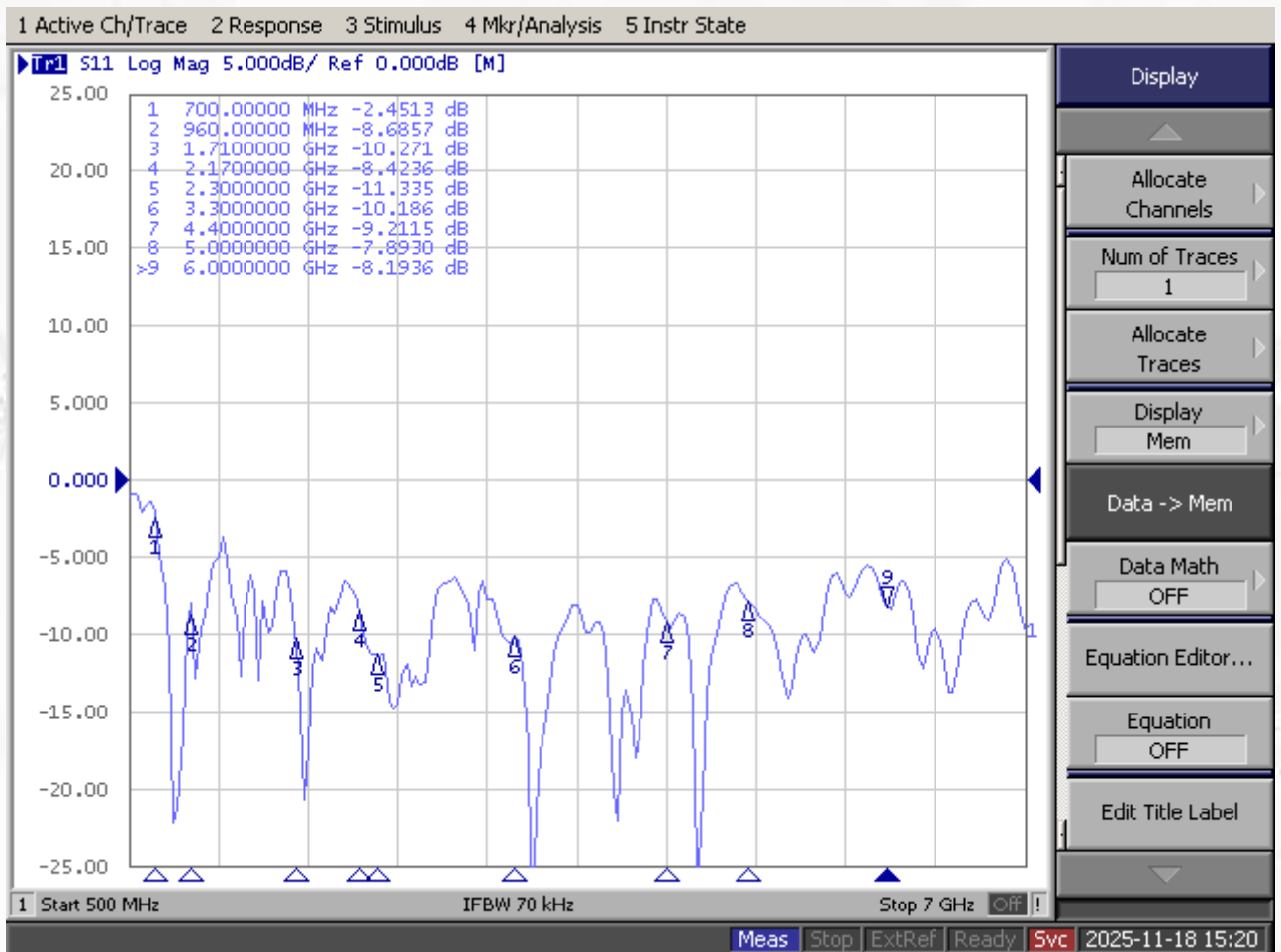
Measured Reflection Coefficient S₁₁



Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

Measured Reflection Coefficient S88



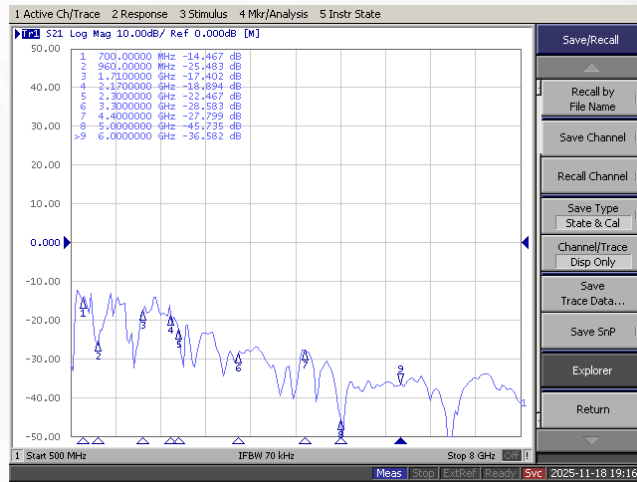
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

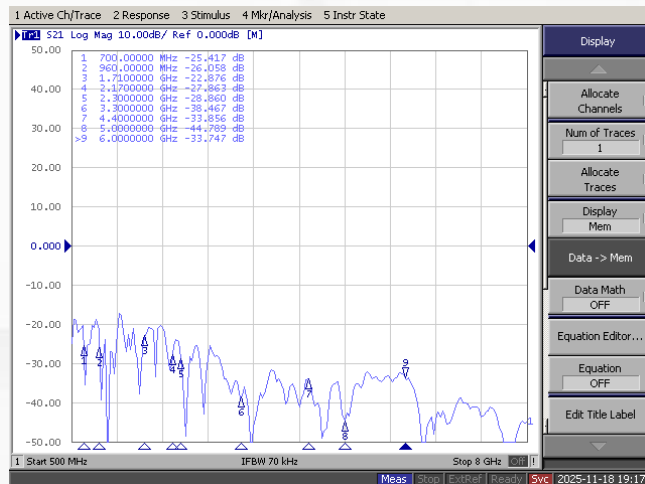
Isolation

Isolation between Antenna 1/Cable 1 to Other Antennas/Cables

S21



S31



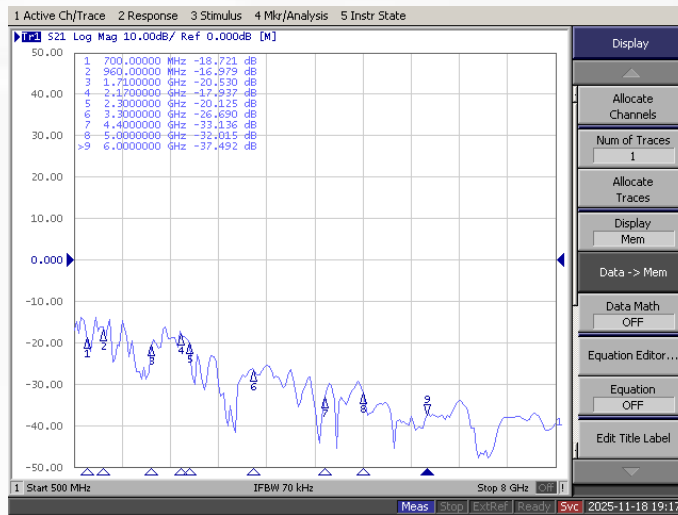
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

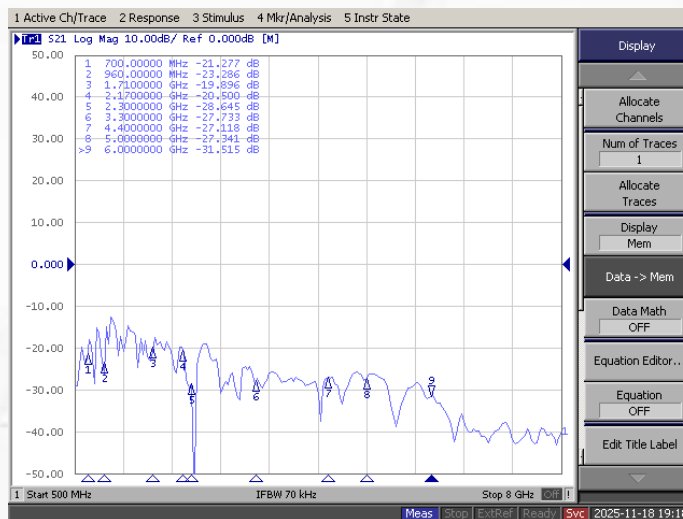
Isolation

Isolation between Antenna 1/Cable 1 to Other Antennas/Cables

S41



S51



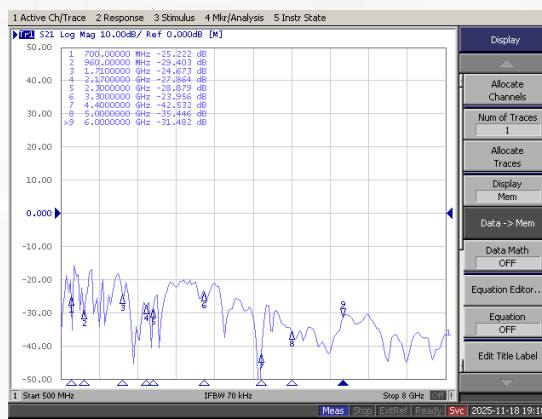
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

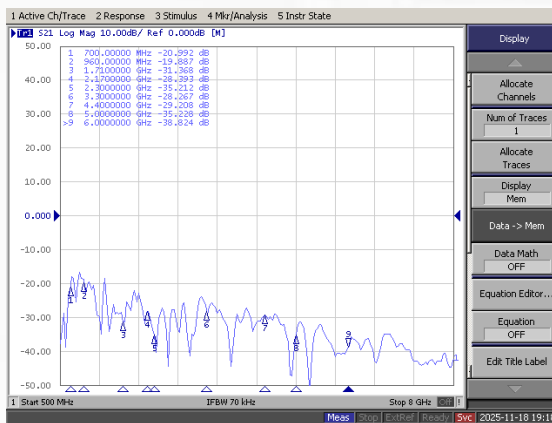
Isolation

Isolation between Antenna 1/Cable 1 to Other Antennas/Cables

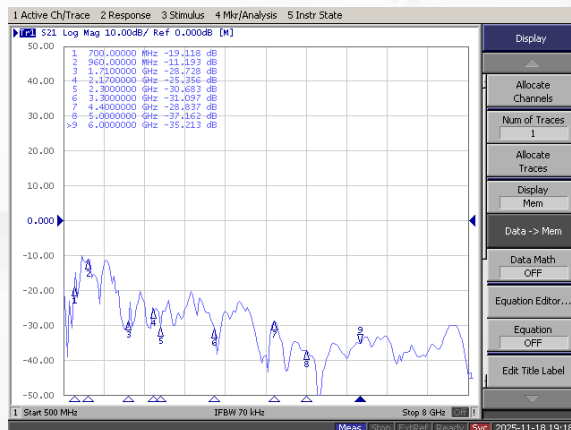
S61



S71



S81



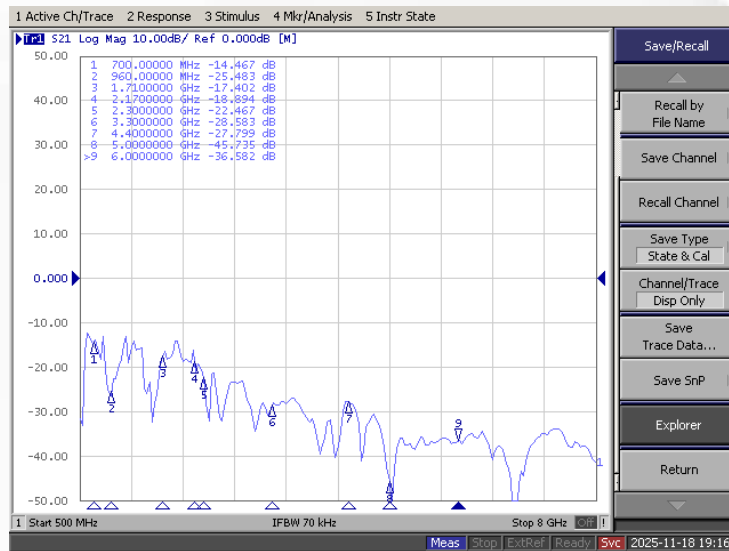
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

Isolation

Isolation between Antenna 2/Cable 2 to Other Antennas/Cables

S12



S32



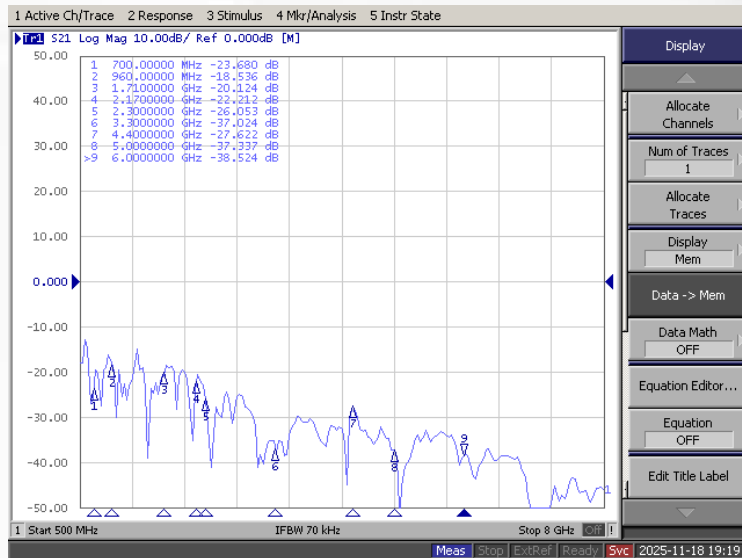
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AN_Master_Cubic-8C-LP

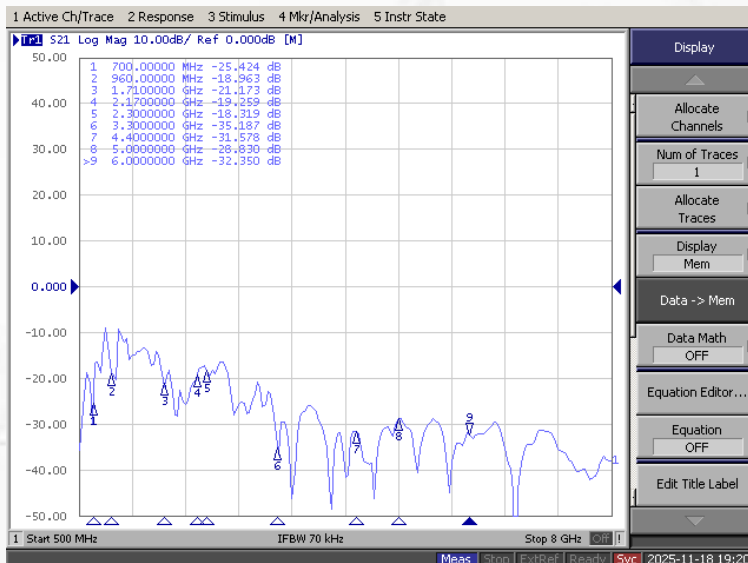
Isolation

Isolation between Antenna 2/Cable 2 to Other Antennas/Cables

S42



S52



Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

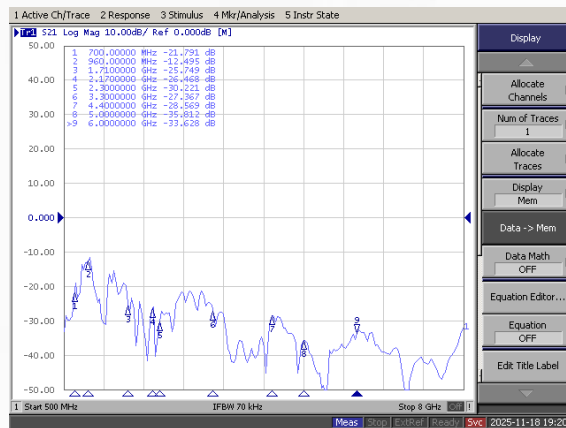
Isolation

Isolation between Antenna 2/Cable 2 to Other Antennas/Cables

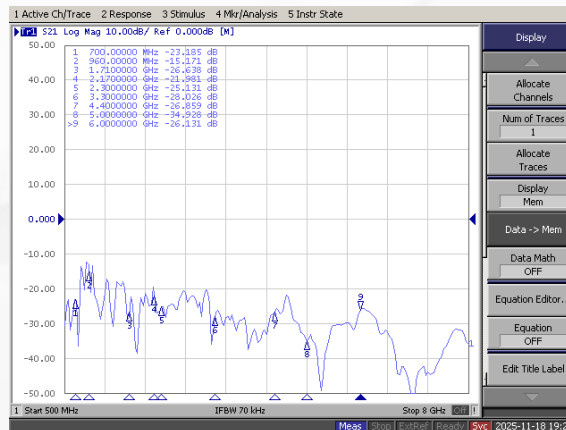
S62



S72



S82



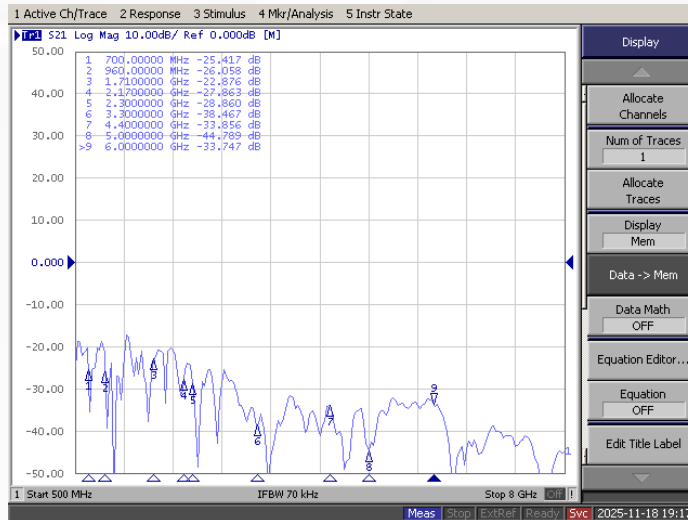
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

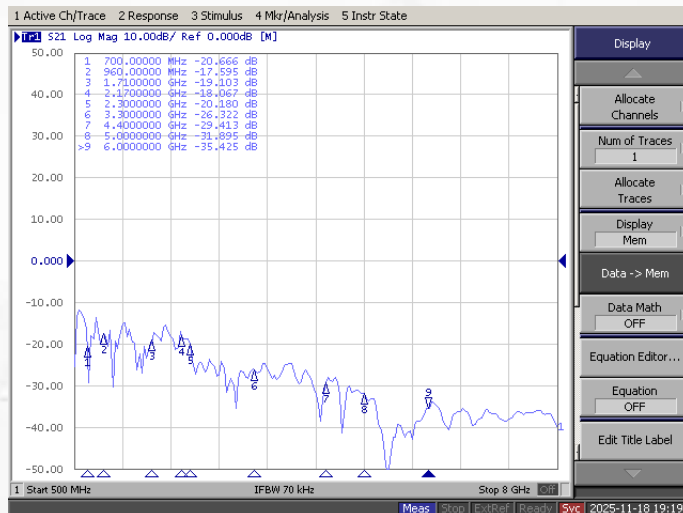
Isolation

Isolation between Antenna 3/Cable 3 to Other Antennas/Cables

S13



S23



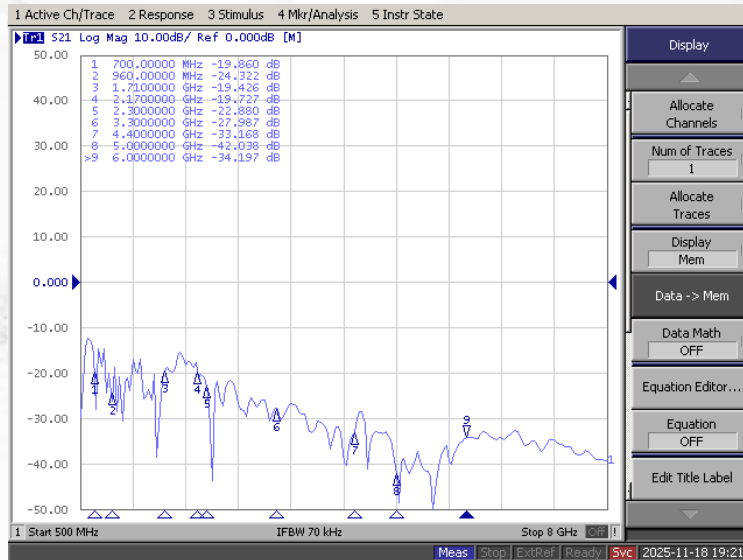
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

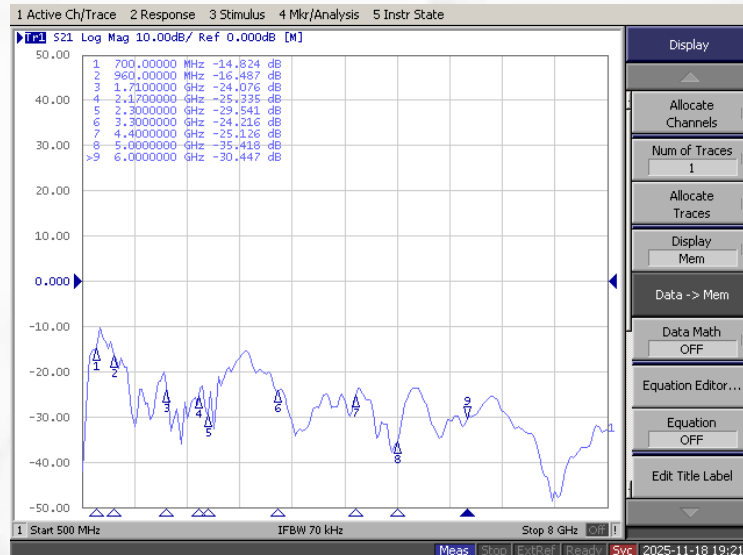
Isolation

Isolation between Antenna 3/Cable 3 to Other Antennas/Cables

S43



S53



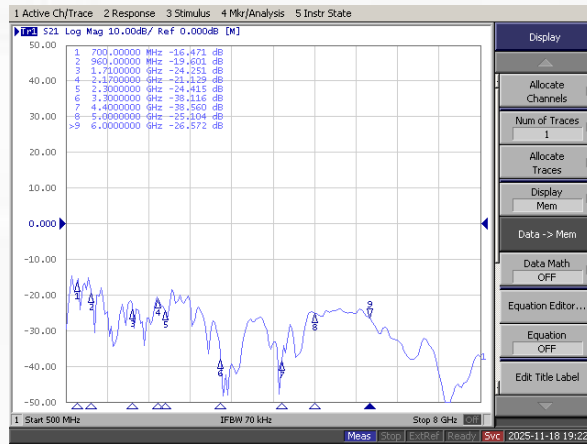
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

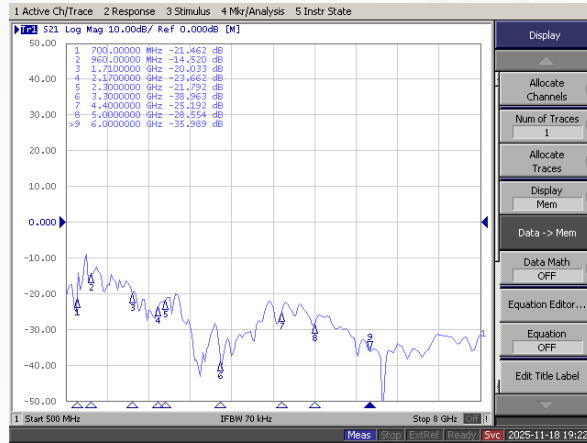
Isolation

Isolation between Antenna 3/Cable 3 to Other Antennas/Cables

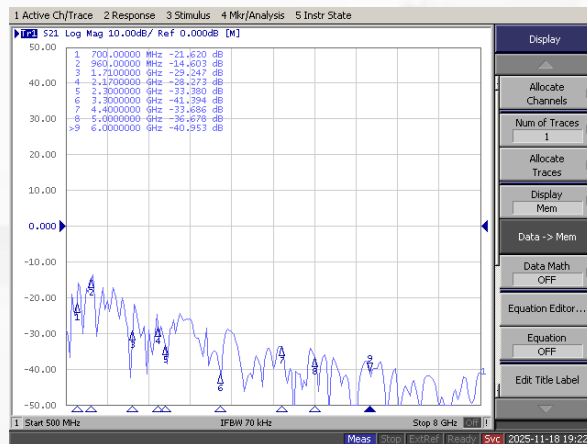
S63



S73



S83



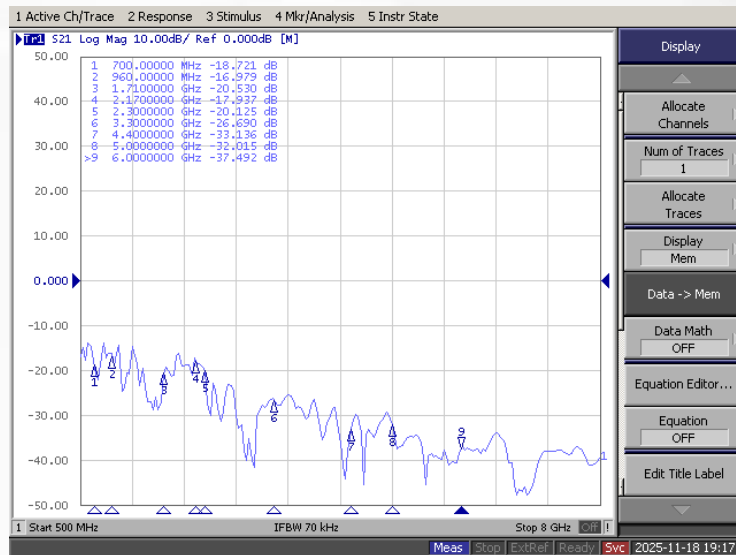
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

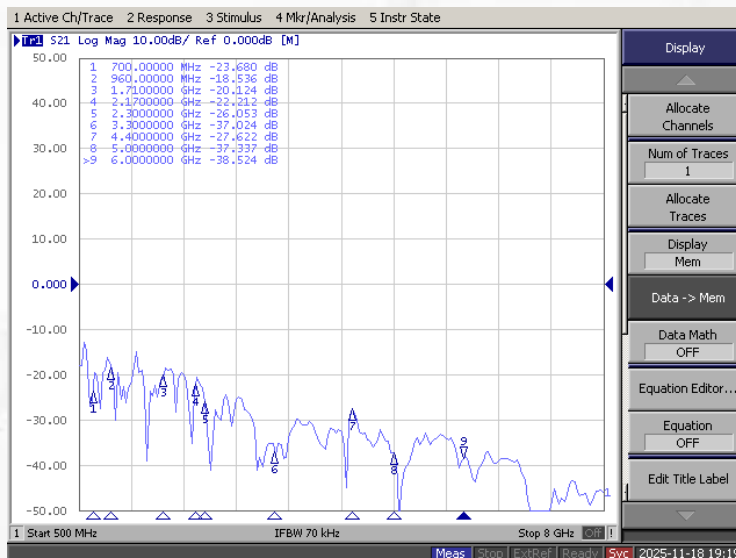
Isolation

Isolation between Antenna 4/Cable 4 to Other Antennas/Cables

S14



S24



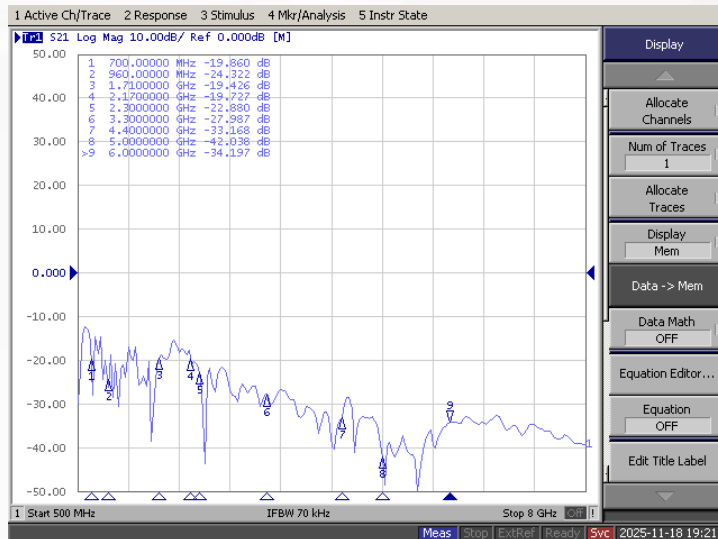
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

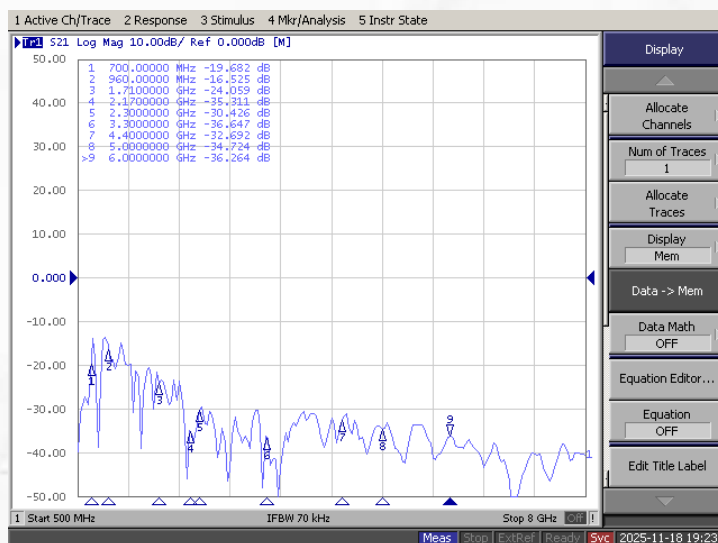
Isolation

Isolation between Antenna 4/Cable 4 to Other Antennas/Cables

S34



S54



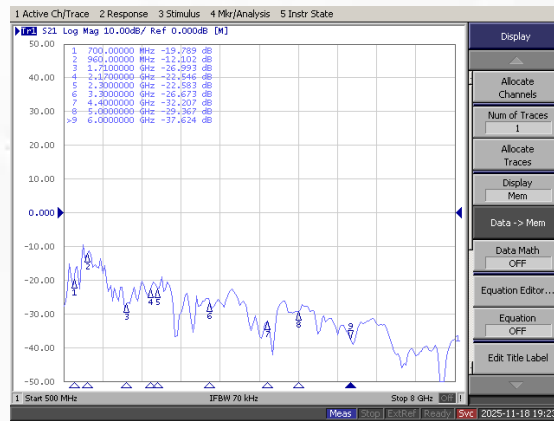
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

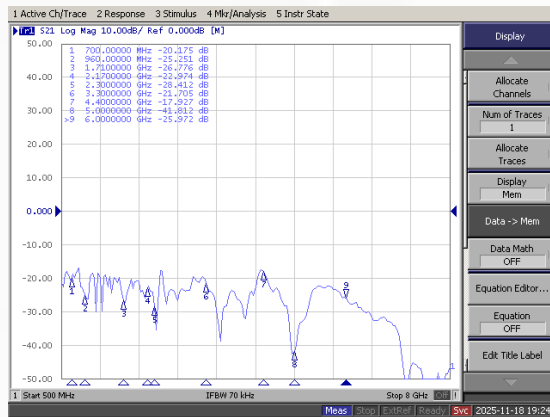
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Isolation between Antenna 4/Cable 4 to Other Antennas/Cables

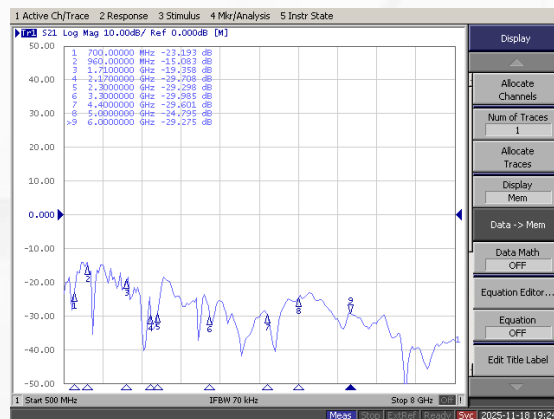
S64



S74



S84



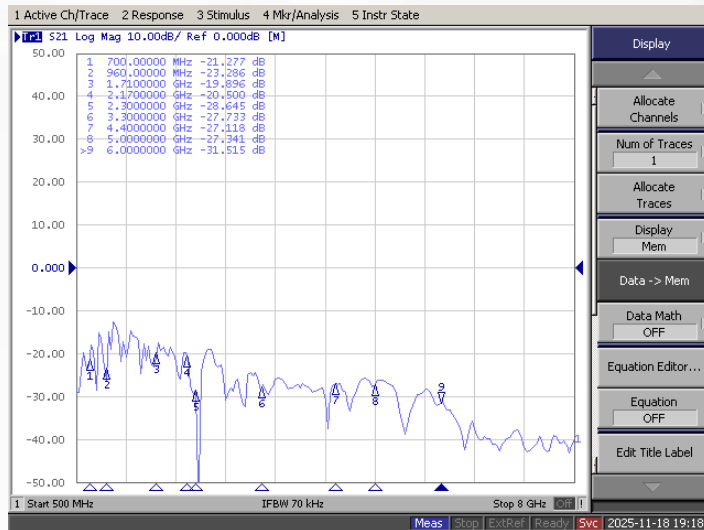
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

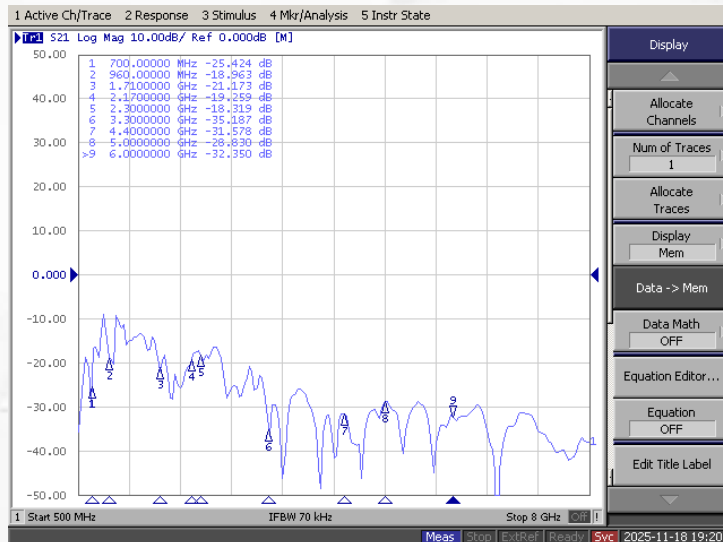
Isolation

Isolation between Antenna 5/Cable 5 to Other Antennas/Cables

S15



S25



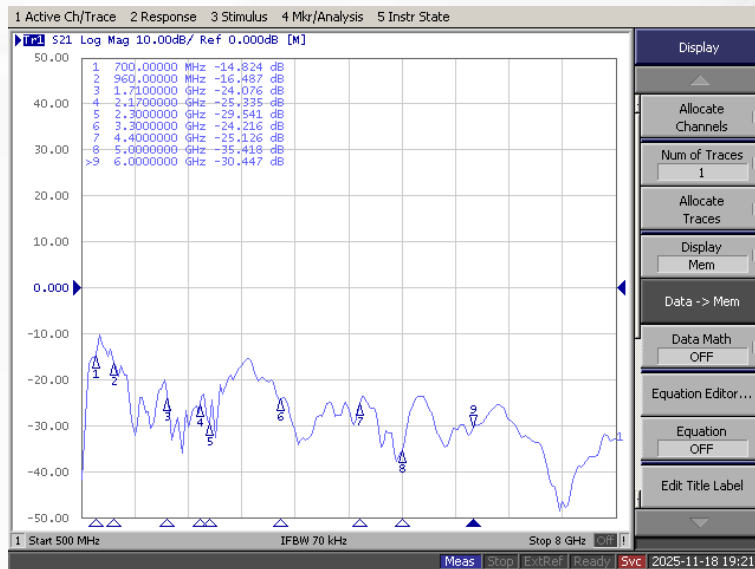
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

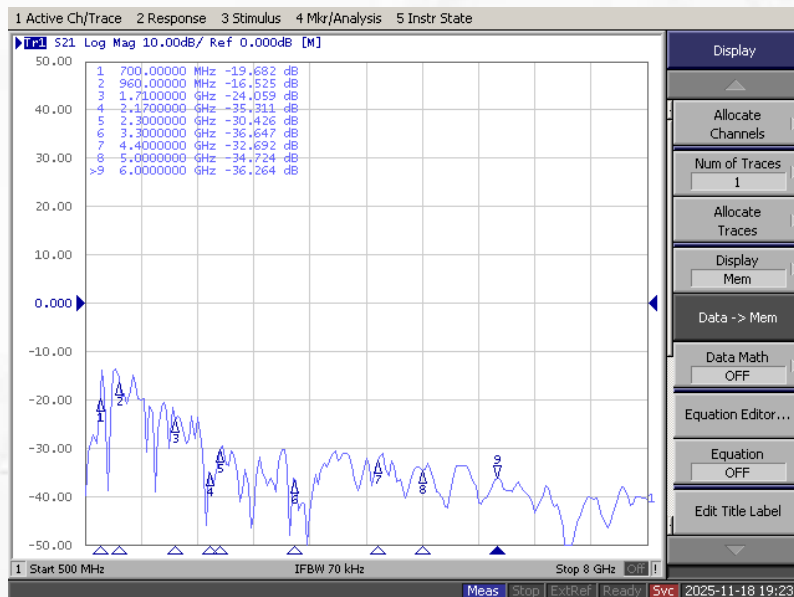
Isolation

Isolation between Antenna 5/Cable 5 to Other Antennas/Cables

S35



S45



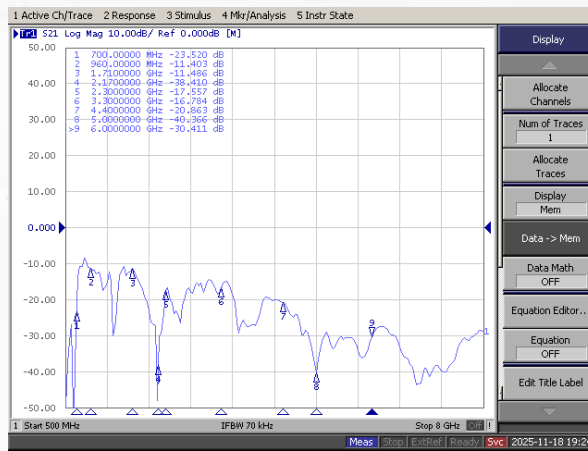
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

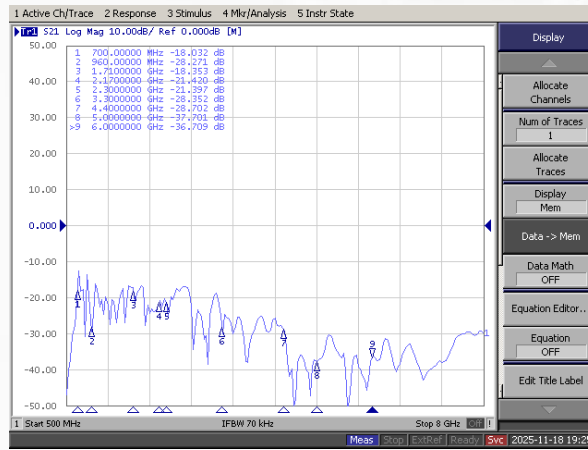
Isolation

Isolation between Antenna 5/Cable 5 to Other Antennas/Cables

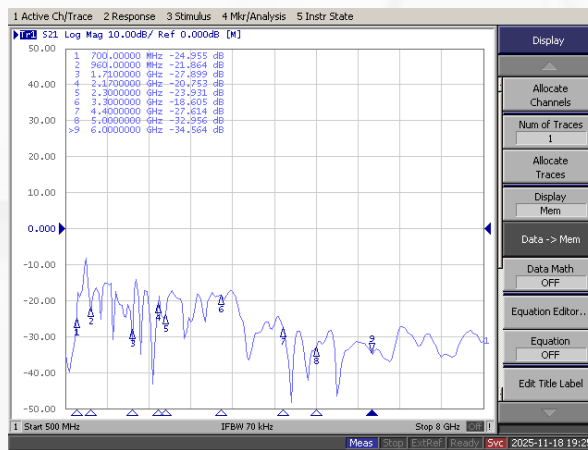
S65



S75



S85



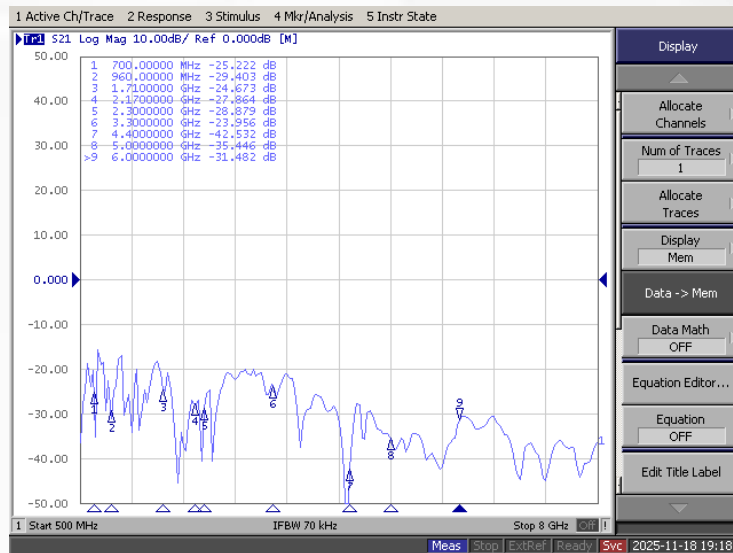
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

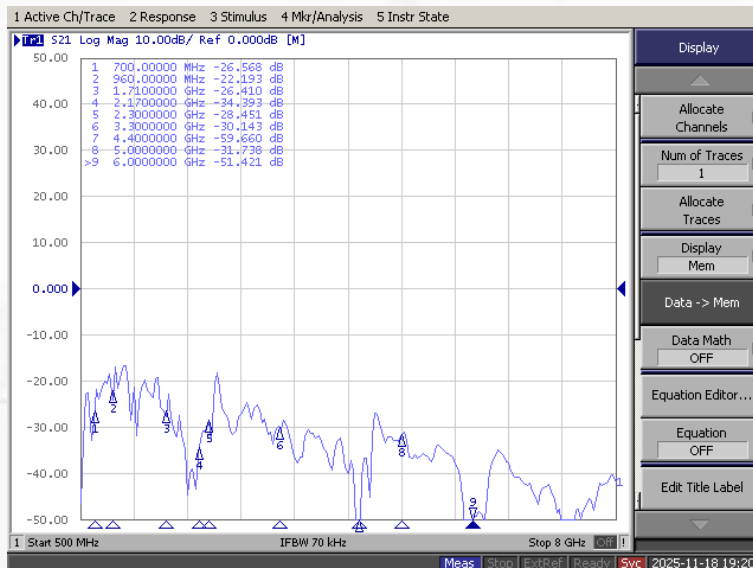
Isolation

Isolation between Antenna 6/Cable 6 to Other Antennas/Cables

S16



S26



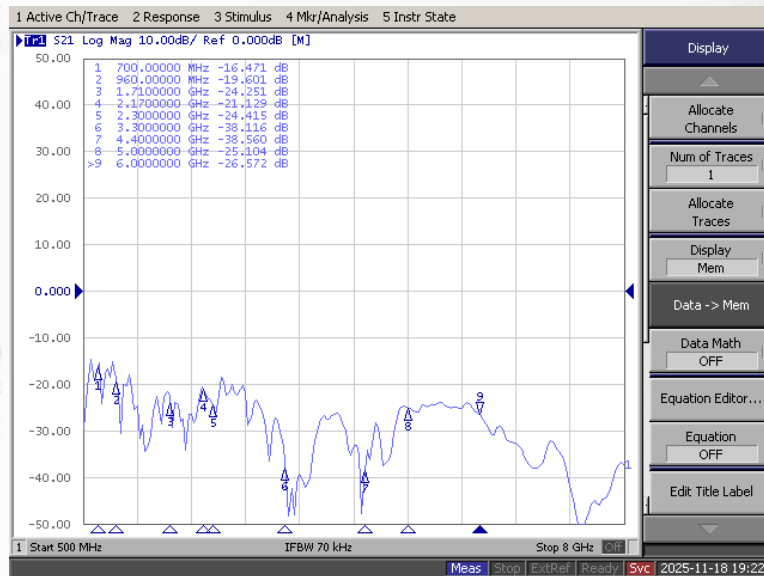
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

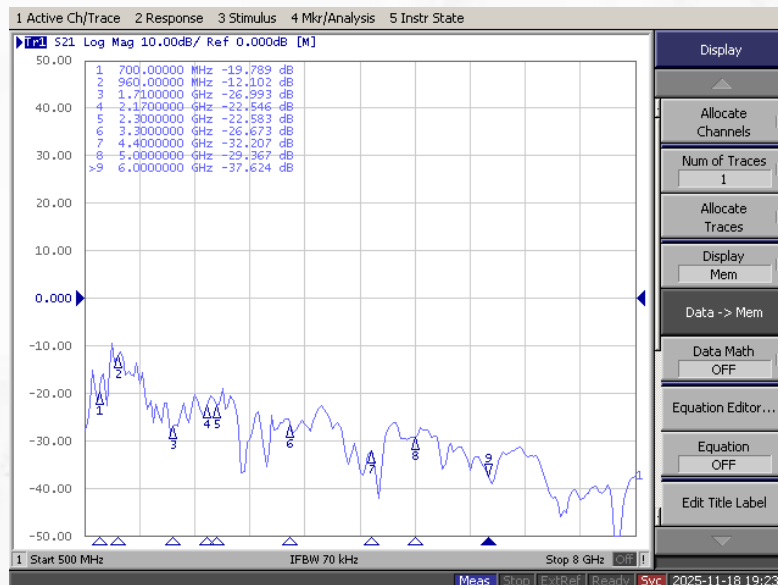
Isolation

Isolation between Antenna 6/Cable 6 to Other Antennas/Cables

S36



S46



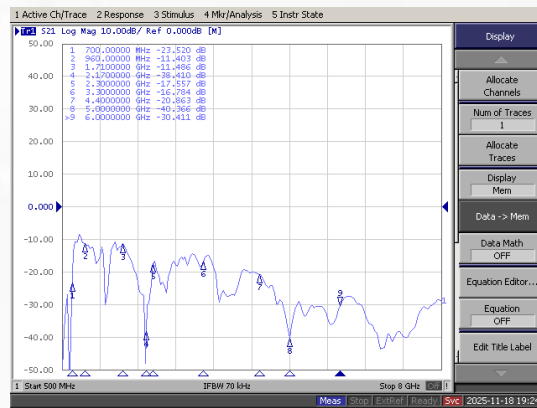
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

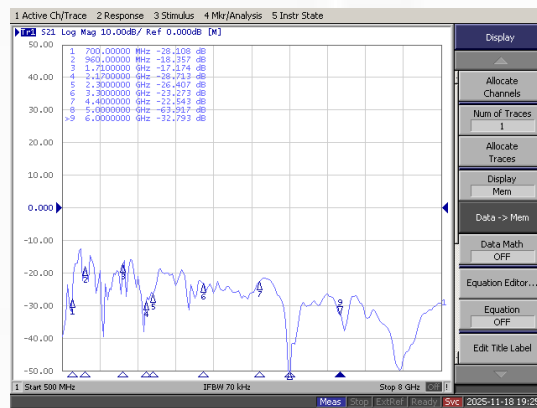
Isolation

Isolation between Antenna 6/Cable 6 to Other Antennas/Cables

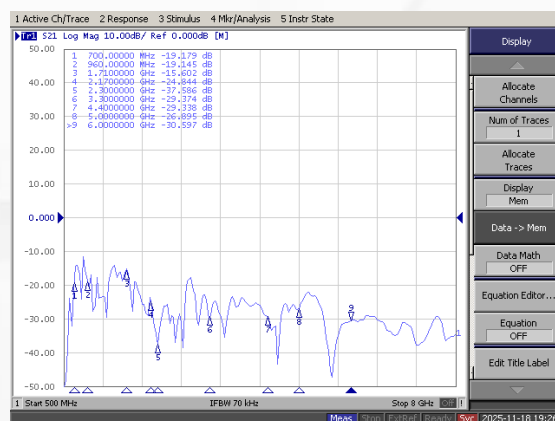
S56



S76



S86



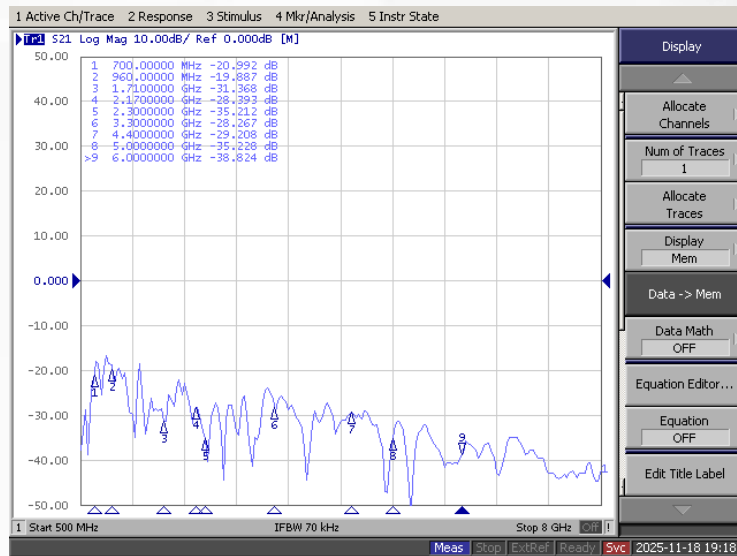
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

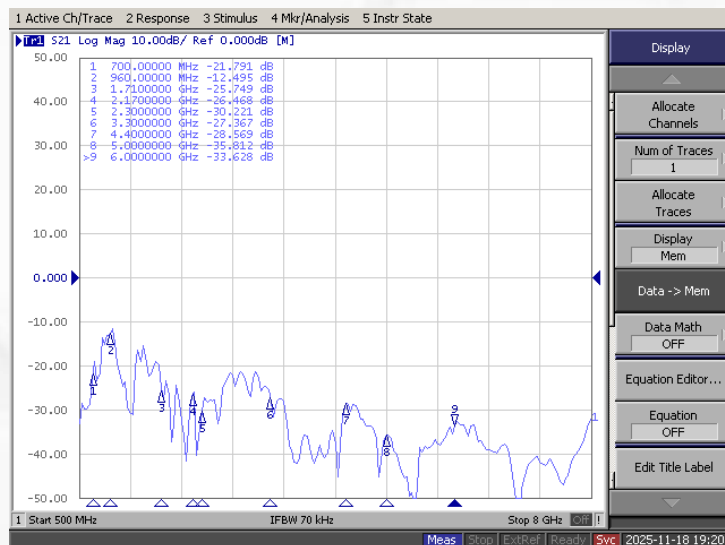
Isolation

Isolation between Antenna 7/Cable 7 to Other Antennas/Cables

S17



S27



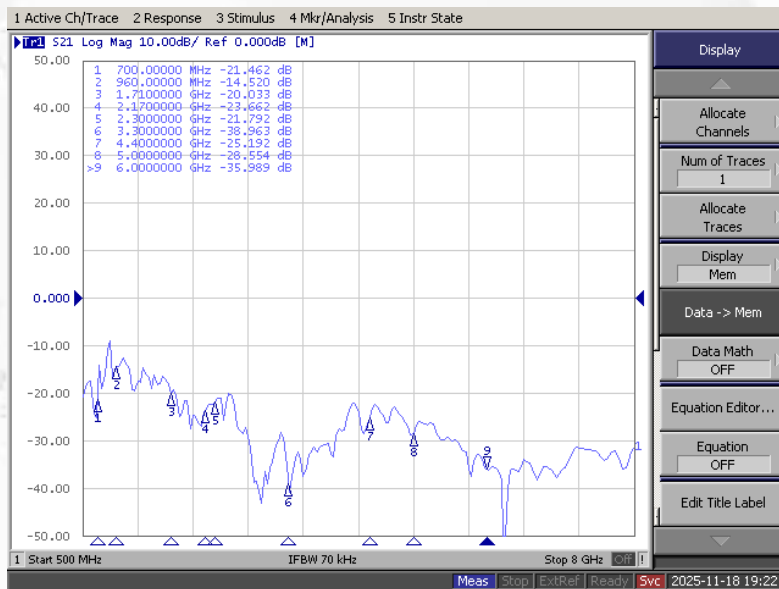
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

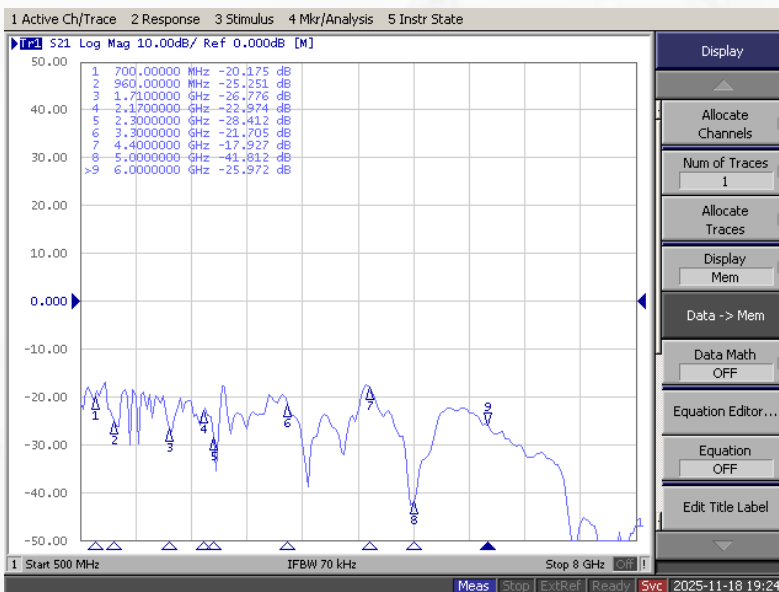
Isolation

Isolation between Antenna 7/Cable 7 to Other Antennas/Cables

S37



S47



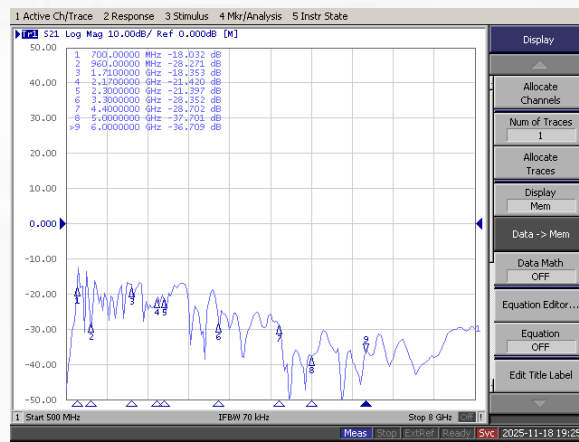
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

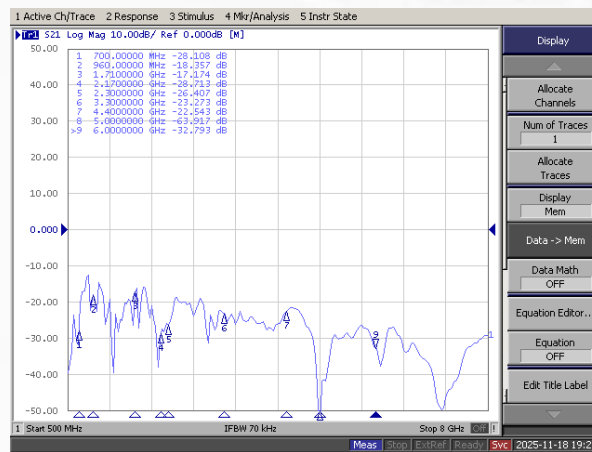
Isolation

Isolation between Antenna 7/Cable 7 to Other Antennas/Cables

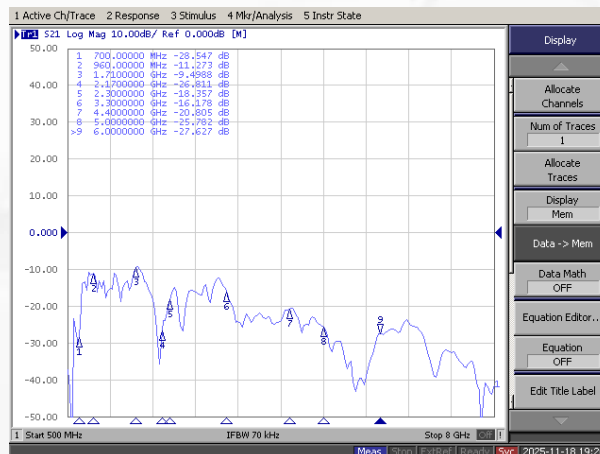
S57



S67



S87



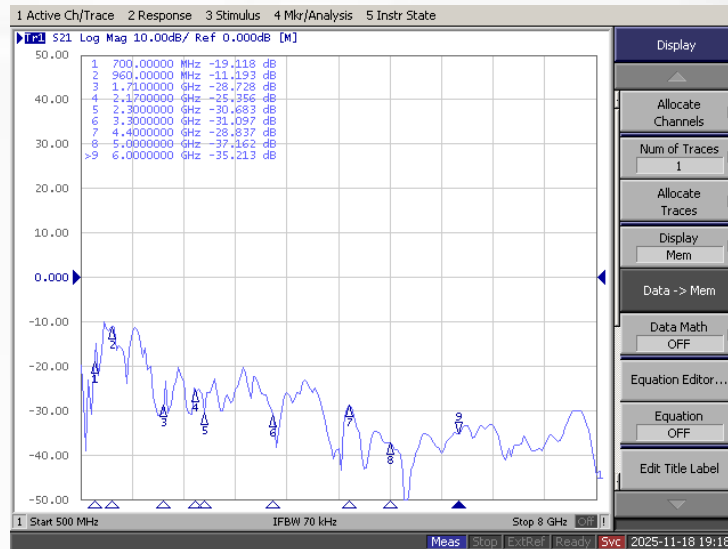
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

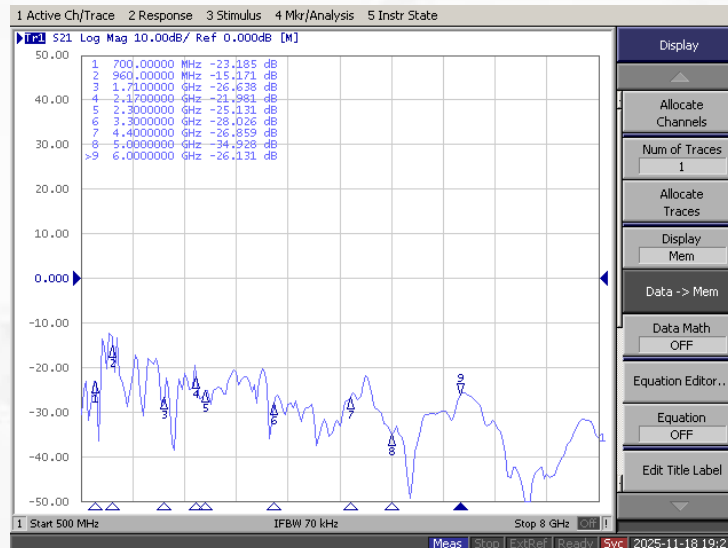
Isolation

Isolation between Antenna 8/Cable 8 to Other Antennas/Cables

S18



S28



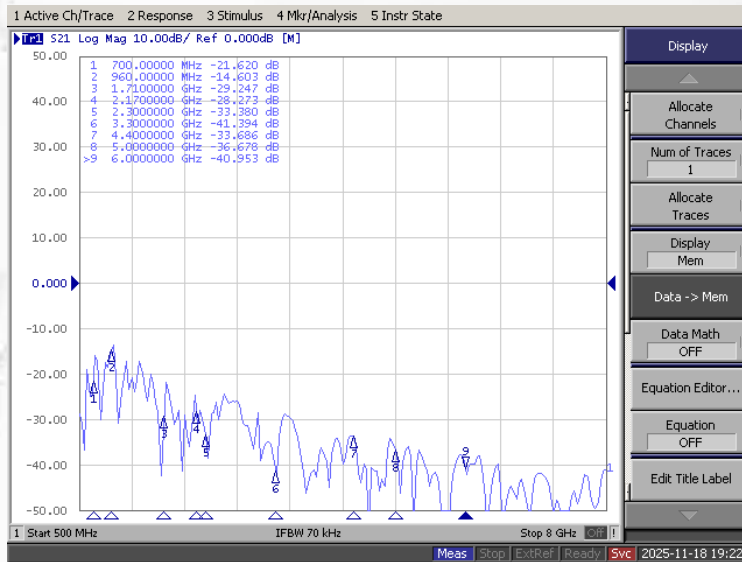
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

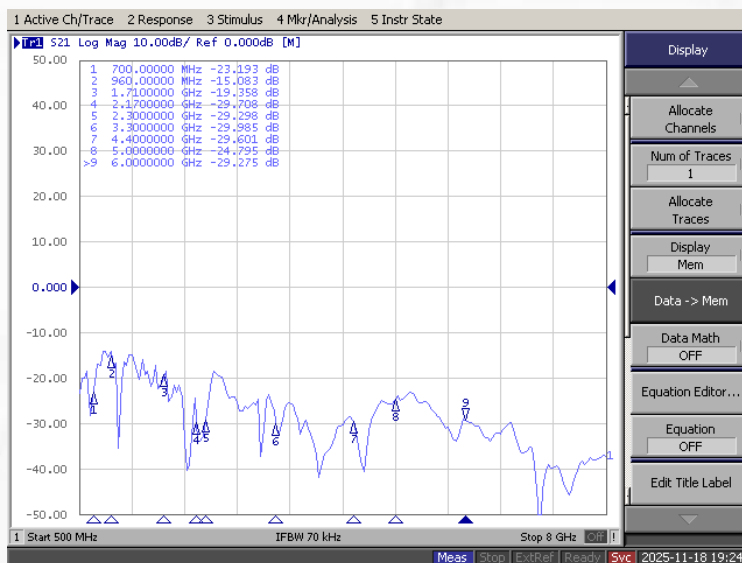
Isolation

Isolation between Antenna 8/Cable 8 to Other Antennas/Cables

S38



S48



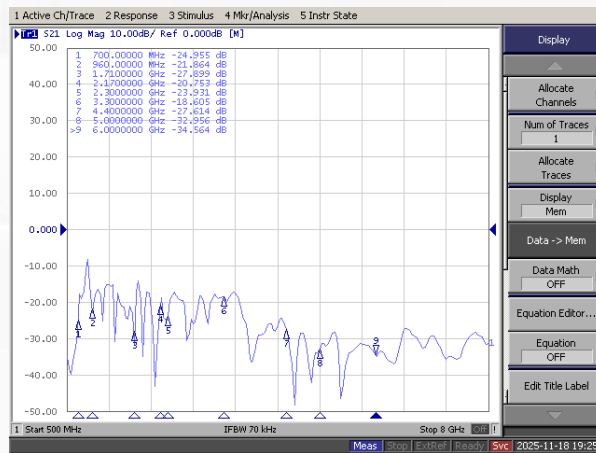
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

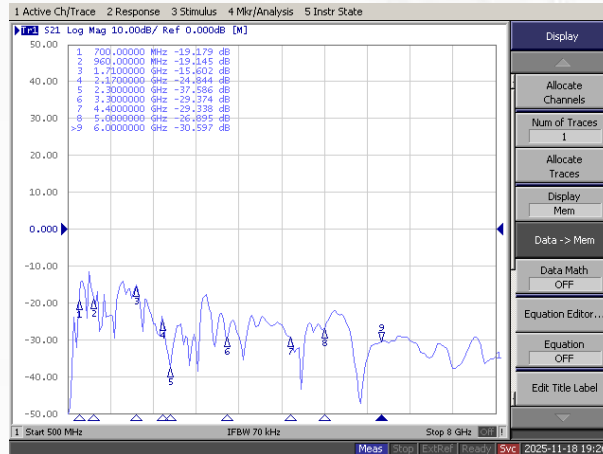
Isolation

Isolation between Antenna 8/Cable 8 to Other Antennas/Cables

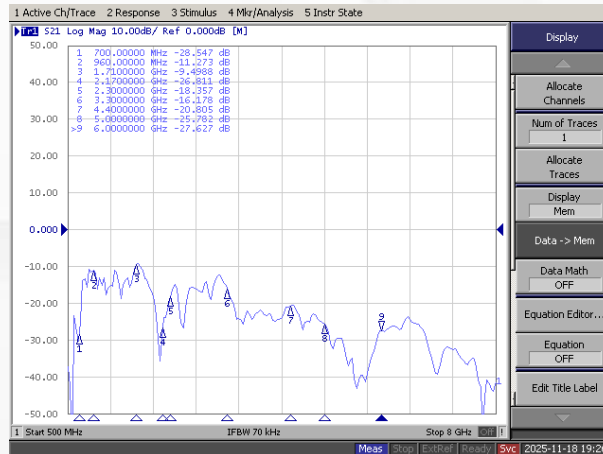
S58



S68



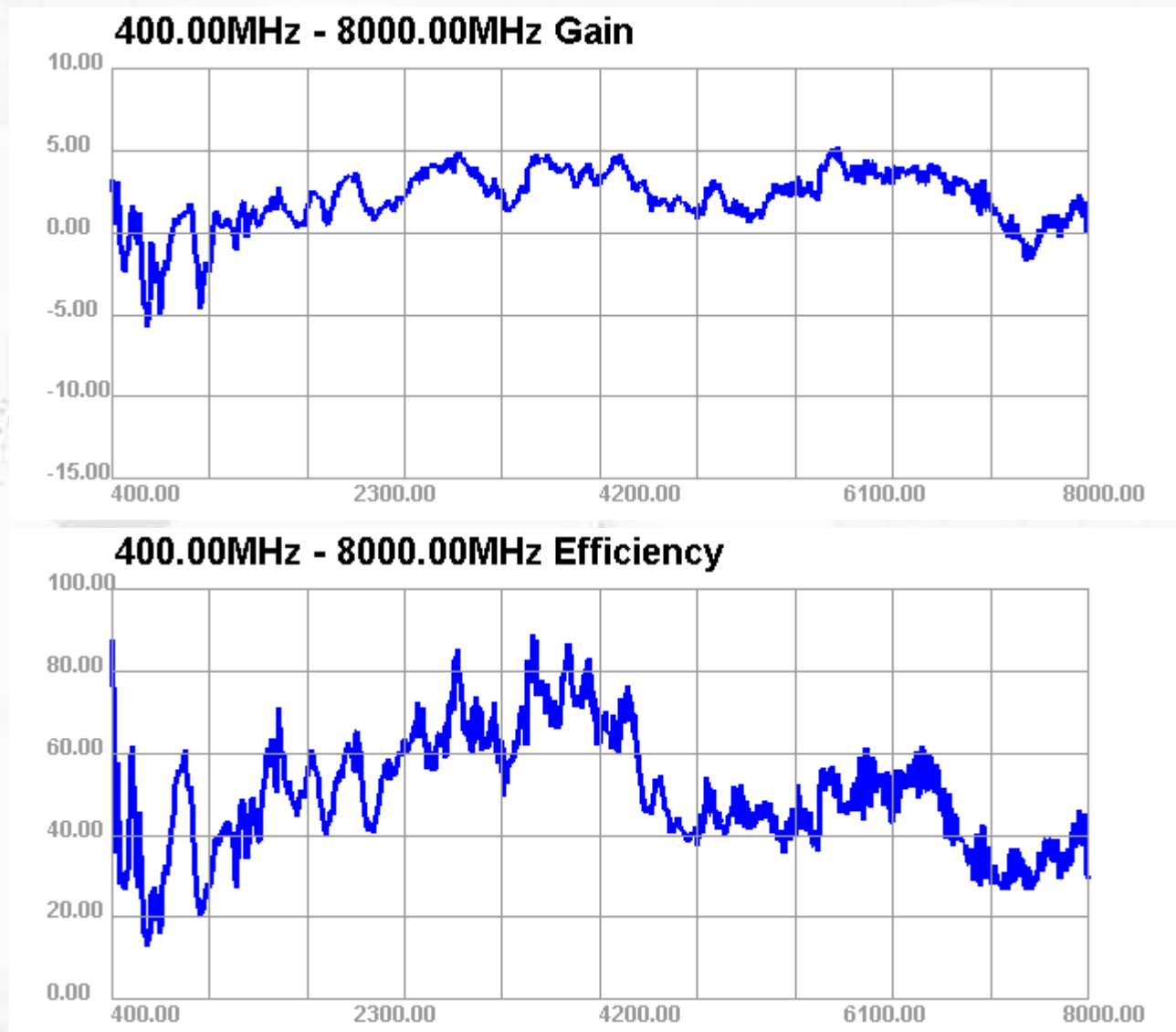
S78



Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

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Measurement Gain Performance Antenna 1/Cable 1

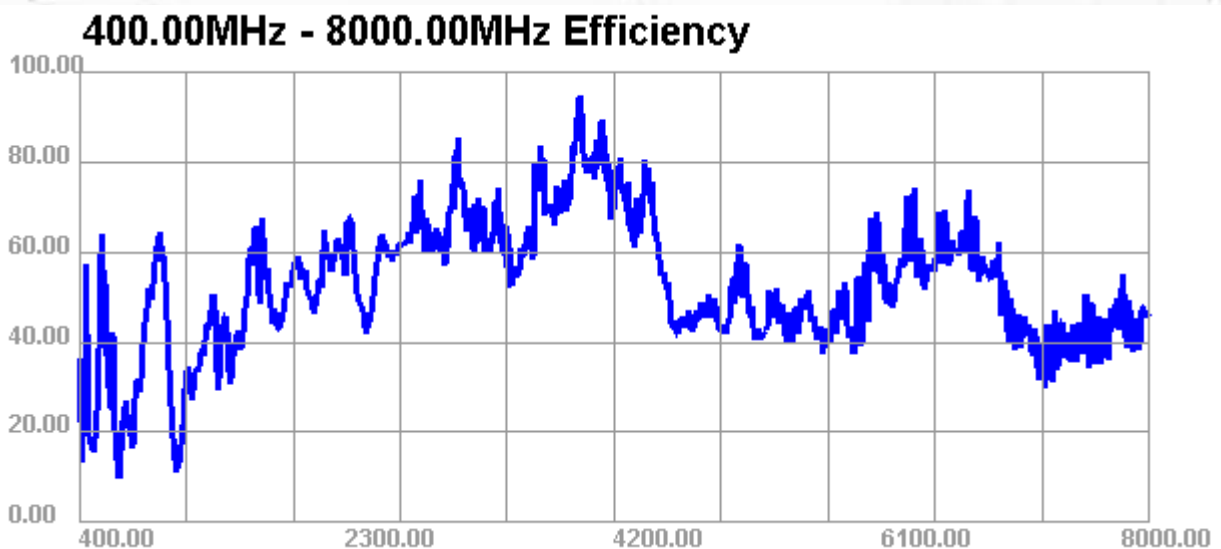
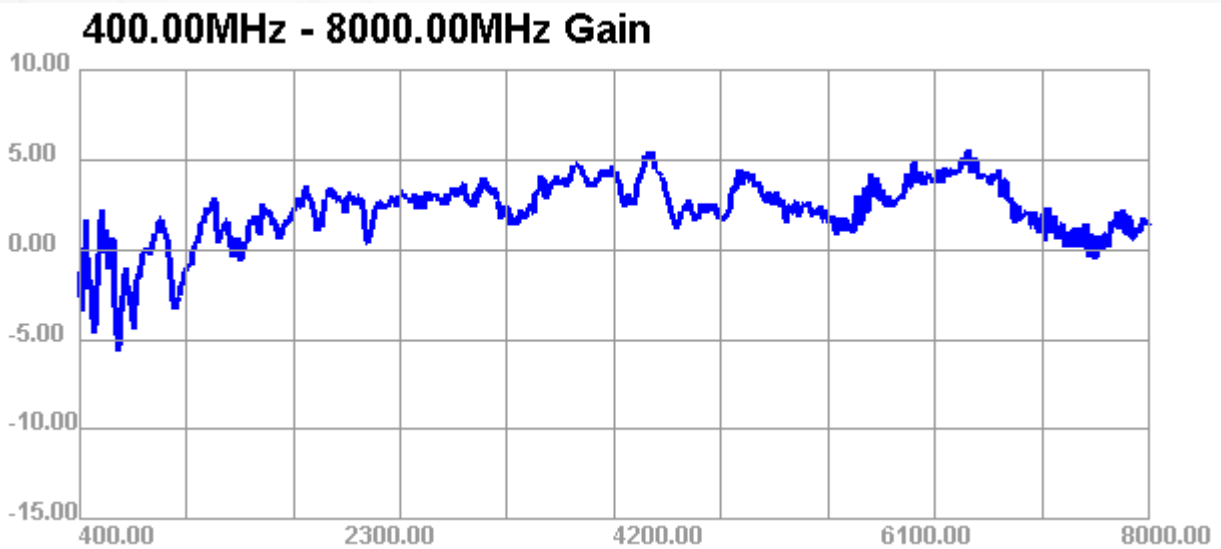




Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

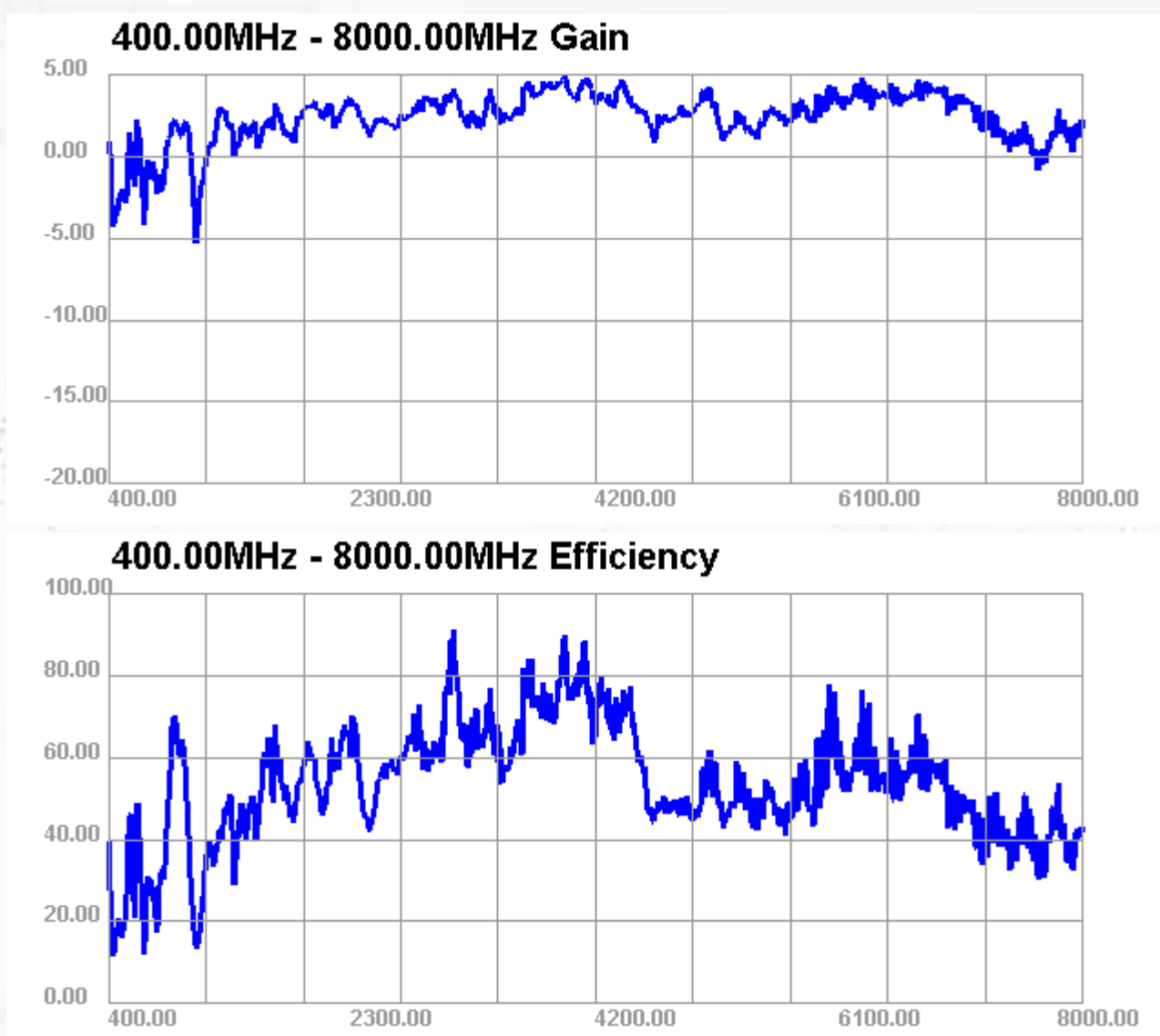
Measurement Gain Performance Antenna 2/Cable 2



Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

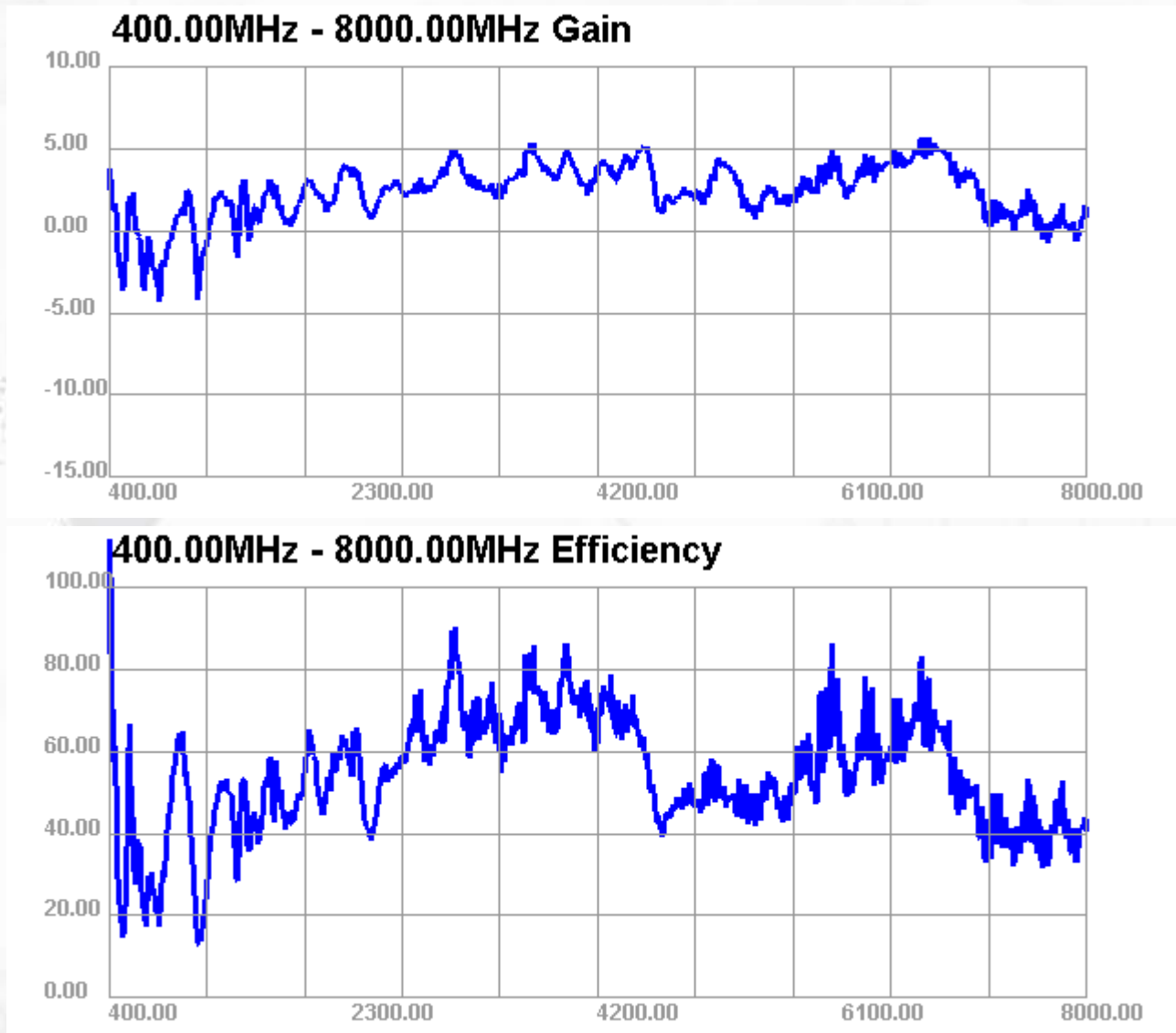
Measurement Gain Performance Antenna 3/Cable 3



Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

Measurement Gain Performance Antenna 4/Cable 4

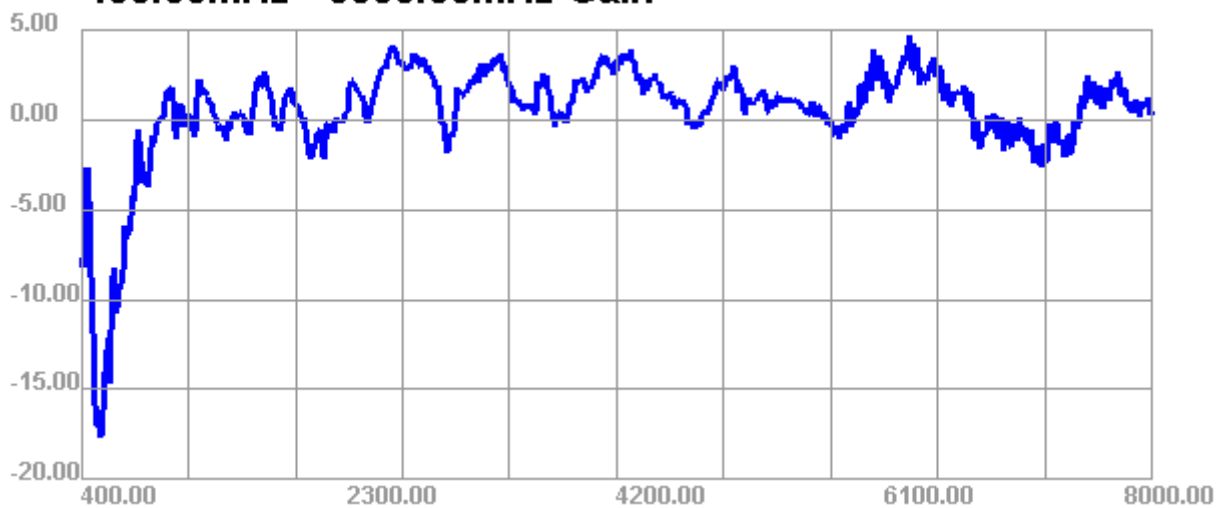


Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

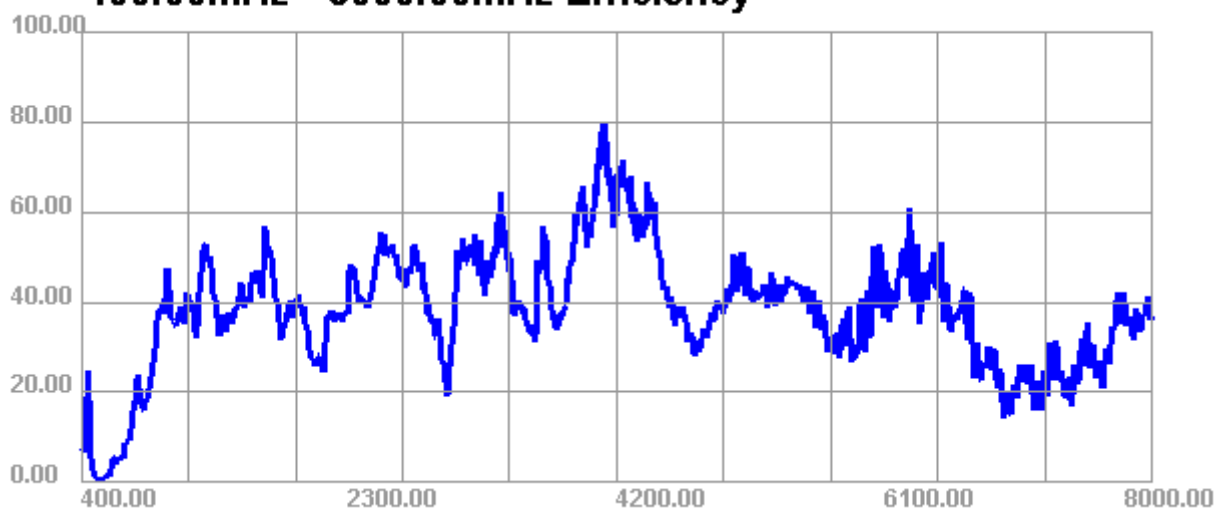
AN_Master_Cubic-8C-LP

Measurement Gain Performance Antenna 5/Cable 5

400.00MHz - 8000.00MHz Gain



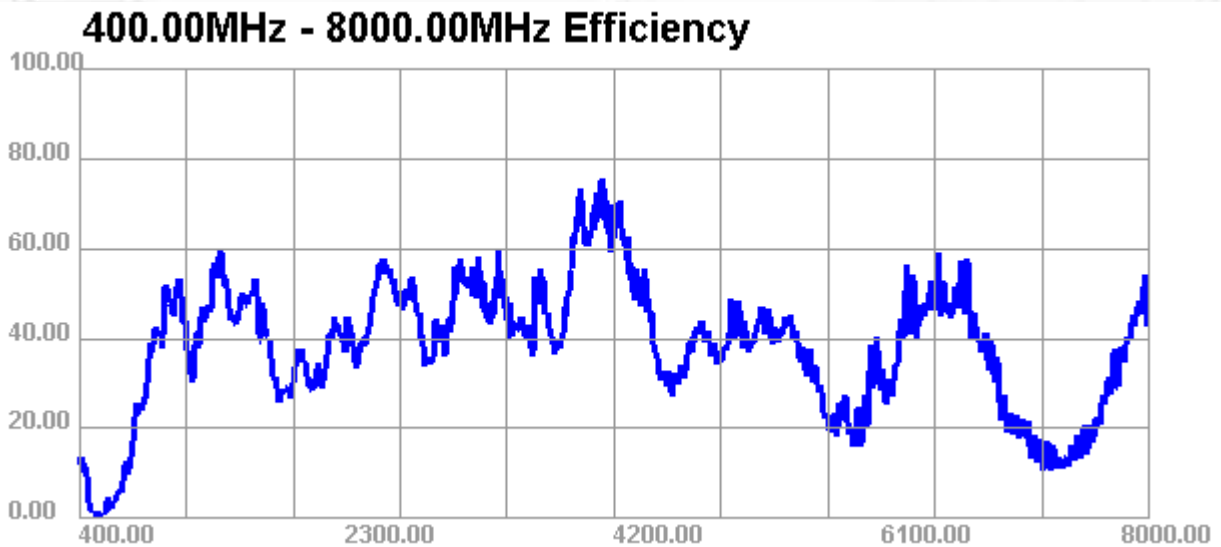
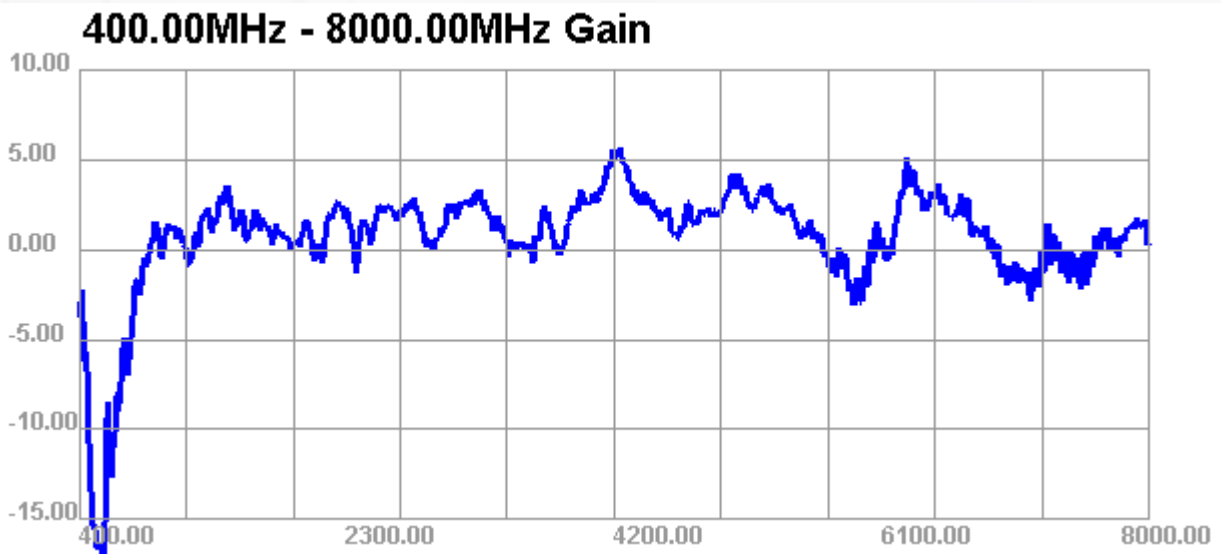
400.00MHz - 8000.00MHz Efficiency



Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

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Measurement Gain Performance Antenna 6/Cable 6



Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

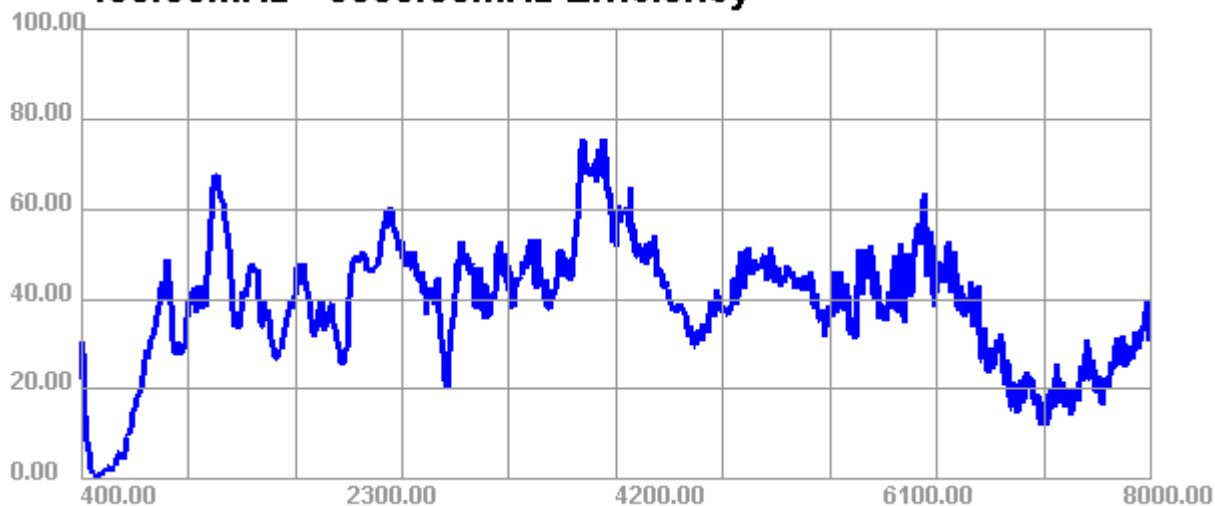
AN_Master_Cubic-8C-LP

Measurement Gain Performance Antenna 7/Cable 7

400.00MHz - 8000.00MHz Gain



400.00MHz - 8000.00MHz Efficiency



Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

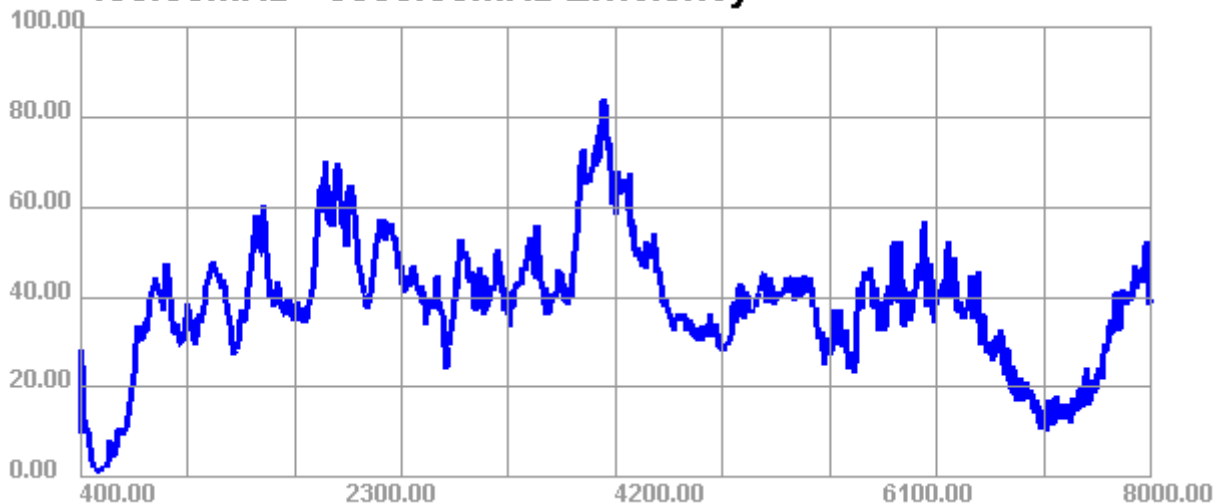
AN_Master_Cubic-8C-LP

Measurement Gain Performance Antenna 8/Cable 8

400.00MHz - 8000.00MHz Gain



400.00MHz - 8000.00MHz Efficiency



Maswell Cellular 5G/4G 8X8 MIMO Antenna

Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

Appendix : Measured Gain Performances Table

Antenna 1/Cable 1

| Passive Test For 400-8000 | | | |
|---------------------------|-------|-------|-------|
| Freq | Effi | Effi | Gain |
| (MHz) | (%) | (dB) | (dBi) |
| 600 | 26.99 | -5.69 | -0.72 |
| 650 | 16.04 | -7.95 | -4.48 |
| 700 | 16.26 | -7.89 | -4.04 |
| 750 | 19.31 | -7.14 | -3.04 |
| 800 | 31.21 | -5.06 | -2.12 |
| 850 | 36.86 | -4.33 | -0.96 |
| 900 | 53.34 | -2.73 | 0.78 |
| 950 | 57.39 | -2.41 | 1.12 |
| 1000 | 51.68 | -2.87 | 1.42 |
| 1050 | 31.34 | -5.04 | -1.22 |
| 1100 | 20.94 | -6.79 | -4.12 |
| 1150 | 28.26 | -5.49 | -1.95 |
| 1200 | 38.18 | -4.18 | 1.07 |
| 1250 | 40.27 | -3.95 | 0.39 |
| 1300 | 43.55 | -3.61 | 0.86 |
| 1350 | 37.83 | -4.22 | -0.14 |
| 1400 | 45.53 | -3.42 | 1.21 |
| 1450 | 34.42 | -4.63 | -0.36 |
| 1500 | 49.11 | -3.09 | 1.47 |
| 1550 | 38.41 | -4.16 | 0.4 |
| 1600 | 56.95 | -2.44 | 1.4 |
| 1650 | 63.77 | -1.95 | 2.19 |
| 1700 | 71.1 | -1.48 | 2.7 |
| 1750 | 52.92 | -2.76 | 1.27 |
| 1800 | 48.82 | -3.11 | 0.85 |
| 1850 | 46.55 | -3.32 | 0.38 |
| 1900 | 49.8 | -3.03 | 0.58 |
| 1950 | 59.78 | -2.23 | 2.34 |

| Passive Test For 400-8000 | | | |
|---------------------------|-------|-------|-------|
| Freq | Effi | Effi | Gain |
| (MHz) | (%) | (dB) | (dBi) |
| 2000 | 54.81 | -2.61 | 2.27 |
| 2050 | 42.74 | -3.69 | 1.36 |
| 2100 | 45.63 | -3.41 | 1.18 |
| 2150 | 53.89 | -2.69 | 2.11 |
| 2200 | 55.54 | -2.55 | 3.03 |
| 2250 | 60.96 | -2.15 | 3.34 |
| 2300 | 65.2 | -1.86 | 3.62 |
| 2350 | 51.9 | -2.85 | 2.03 |
| 2400 | 41.21 | -3.85 | 1.22 |
| 2450 | 43.87 | -3.58 | 0.87 |
| 2500 | 53.58 | -2.71 | 1.57 |
| 2550 | 58.4 | -2.34 | 1.99 |
| 2600 | 54.25 | -2.66 | 1.31 |
| 2650 | 59.22 | -2.28 | 1.87 |
| 2700 | 60.28 | -2.2 | 2.33 |
| 2750 | 63.64 | -1.96 | 3.19 |
| 2800 | 63.67 | -1.96 | 3.12 |
| 2850 | 56.22 | -2.5 | 3.32 |
| 2900 | 58.29 | -2.34 | 4.25 |
| 2950 | 64.73 | -1.89 | 3.92 |
| 3000 | 58.93 | -2.3 | 3.83 |
| 3050 | 75.1 | -1.24 | 4.25 |
| 3100 | 79.99 | -0.97 | 4.86 |
| 3150 | 65.16 | -1.86 | 4.19 |
| 3200 | 59.95 | -2.22 | 3.4 |
| 3250 | 71.56 | -1.45 | 3.62 |
| 3300 | 64.04 | -1.94 | 2.86 |
| 3350 | 68.49 | -1.64 | 2.76 |
| 3400 | 63.15 | -2 | 2.61 |
| 3450 | 49.35 | -3.07 | 1.4 |
| 3500 | 58.1 | -2.36 | 1.4 |

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Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

Appendix : Measured Gain Performances Table

Antenna 1/Cable 1

| Passive Test For 400-8000 | | | |
|---------------------------|-------|-------|-------|
| Freq | Effi | Effi | Gain |
| (MHz) | (%) | (dB) | (dBi) |
| 3550 | 61.28 | -2.13 | 1.84 |
| 3600 | 66.01 | -1.8 | 2.54 |
| 3650 | 79.93 | -0.97 | 3.9 |
| 3700 | 87.49 | -0.58 | 4.78 |
| 3750 | 77.61 | -1.1 | 4.6 |
| 3800 | 72.59 | -1.39 | 4.47 |
| 3850 | 72.82 | -1.38 | 4.21 |
| 3900 | 72.62 | -1.39 | 3.69 |
| 3950 | 86.67 | -0.62 | 4.23 |
| 4000 | 74.37 | -1.29 | 3.08 |
| 4050 | 74.39 | -1.28 | 3.62 |
| 4100 | 79.51 | -1 | 4.06 |
| 4150 | 75.05 | -1.25 | 3.36 |
| 4200 | 62.45 | -2.04 | 2.94 |
| 4250 | 65.5 | -1.84 | 3.53 |
| 4300 | 69.34 | -1.59 | 4.51 |
| 4350 | 61.65 | -2.1 | 4.22 |
| 4400 | 74.6 | -1.27 | 4.06 |
| 4450 | 70.06 | -1.55 | 3.14 |
| 4500 | 59.5 | -2.25 | 2.89 |
| 4550 | 45.74 | -3.4 | 2.83 |
| 4600 | 45.14 | -3.45 | 1.31 |
| 4650 | 52.73 | -2.78 | 1.8 |
| 4700 | 46.69 | -3.31 | 2.03 |
| 4750 | 40.3 | -3.95 | 1.24 |
| 4800 | 43.97 | -3.57 | 2.2 |
| 4850 | 40.98 | -3.87 | 1.93 |
| 4900 | 40.25 | -3.95 | 1.44 |
| 4950 | 39.23 | -4.06 | 1.08 |
| 5000 | 40.67 | -3.91 | 1.07 |

| Passive Test For 400-8000 | | | |
|---------------------------|-------|-------|-------|
| Freq | Effi | Effi | Gain |
| (MHz) | (%) | (dB) | (dBi) |
| 5050 | 45.34 | -3.44 | 2.24 |
| 5100 | 44.01 | -3.56 | 2.8 |
| 5150 | 42.65 | -3.7 | 2.3 |
| 5200 | 44.86 | -3.48 | 1.26 |
| 5250 | 51.36 | -2.89 | 1.96 |
| 5300 | 52.49 | -2.8 | 1.72 |
| 5350 | 45.58 | -3.41 | 1.09 |
| 5400 | 41.99 | -3.77 | 0.97 |
| 5450 | 43.68 | -3.6 | 0.88 |
| 5500 | 44.26 | -3.54 | 1.77 |
| 5550 | 44.85 | -3.48 | 2.78 |
| 5600 | 41.48 | -3.82 | 2.94 |
| 5650 | 43.52 | -3.61 | 2.96 |
| 5700 | 46.43 | -3.33 | 3.07 |
| 5750 | 46.99 | -3.28 | 2.95 |
| 5800 | 41.93 | -3.77 | 2.4 |
| 5850 | 37.46 | -4.26 | 2.15 |
| 5900 | 38.98 | -4.09 | 2.24 |
| 5950 | 50.92 | -2.93 | 3.7 |
| 6000 | 52.04 | -2.84 | 4.67 |
| 6050 | 55.07 | -2.59 | 5.18 |
| 6100 | 47.49 | -3.23 | 3.86 |
| 6150 | 46.63 | -3.31 | 3.55 |
| 6200 | 45.72 | -3.4 | 3.01 |
| 6250 | 43.66 | -3.6 | 2.99 |
| 6300 | 46.82 | -3.3 | 3.46 |
| 6350 | 50.38 | -2.98 | 3.34 |
| 6400 | 52.05 | -2.84 | 3.38 |

Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

Appendix : Measured Gain Performances Table

Antenna 1/Cable 1

| Passive Test For 400-8000 | | | |
|---------------------------|-------------|--------------|---------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 6450 | 50.2 | -2.99 | 3.49 |
| 6500 | 52.94 | -2.76 | 3.95 |
| 6550 | 54.07 | -2.67 | 4 |
| 6600 | 56.21 | -2.5 | 3.77 |
| 6650 | 57.25 | -2.42 | 4.15 |
| 6700 | 57.96 | -2.37 | 3.73 |
| 6750 | 56.87 | -2.45 | 3.65 |
| 6800 | 50.4 | -2.98 | 3.51 |
| 6850 | 45.83 | -3.39 | 3.22 |
| 6900 | 41.47 | -3.82 | 2.53 |
| 6950 | 37.24 | -4.29 | 2.45 |
| 7000 | 39.95 | -3.99 | 3.29 |
| 7050 | 35.9 | -4.45 | 3.02 |
| 7100 | 30.86 | -5.11 | 1.92 |
| 7150 | 28.47 | -5.46 | 1.34 |
| 7200 | 29.41 | -5.31 | 1.43 |
| 7250 | 28.01 | -5.53 | 1.28 |
| 7300 | 28.41 | -5.47 | 1.18 |
| 7350 | 30.89 | -5.1 | 0.59 |
| 7400 | 36.53 | -4.37 | 1.04 |
| 7450 | 36.33 | -4.4 | 0.01 |
| 7500 | 29.7 | -5.27 | -1.08 |
| 7550 | 28.45 | -5.46 | -1.12 |
| 7600 | 29.74 | -5.27 | -0.41 |
| 7650 | 32.61 | -4.87 | -0.11 |
| 7700 | 38.86 | -4.11 | 0.97 |
| 7750 | 39.2 | -4.07 | 1.14 |
| 7800 | 36.01 | -4.44 | 0.89 |
| 7850 | 33.86 | -4.7 | 0.64 |
| 7900 | 37.18 | -4.3 | 1.41 |
| 7950 | 37.27 | -4.29 | 0.93 |
| 8000 | 29.07 | -5.37 | -0.04 |

Maswell Cellular 5G/4G 8X8 MIMO Antenna

Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

Appendix : Measured Gain Performances Table

Antenna 2/Cable 2

| Passive Test For 400-8000 | | | |
|---------------------------|-------|-------|-------|
| Freq | Effi | Effi | Gain |
| (MHz) | (%) | (dB) | (dBi) |
| 600 | 33.92 | -4.7 | -0.55 |
| 650 | 23.15 | -6.35 | -2.35 |
| 700 | 18.04 | -7.44 | -2.87 |
| 750 | 21.82 | -6.61 | -2.1 |
| 800 | 31.59 | -5 | -2.51 |
| 850 | 38.02 | -4.2 | -0.4 |
| 900 | 49.91 | -3.02 | -0.25 |
| 950 | 61.33 | -2.12 | 0.89 |
| 1000 | 59.2 | -2.28 | 1.12 |
| 1050 | 27.32 | -5.64 | -1.38 |
| 1100 | 12.6 | -9 | -2.57 |
| 1150 | 28.76 | -5.41 | -1.28 |
| 1200 | 27.25 | -5.65 | -0.87 |
| 1250 | 34.3 | -4.65 | 0.65 |
| 1300 | 41.85 | -3.78 | 2.14 |
| 1350 | 50.83 | -2.94 | 2.71 |
| 1400 | 36.06 | -4.43 | 0.85 |
| 1450 | 42.85 | -3.68 | 1.62 |
| 1500 | 37.68 | -4.24 | -0.32 |
| 1550 | 38.44 | -4.15 | -0.6 |
| 1600 | 54.54 | -2.63 | 0.84 |
| 1650 | 65.7 | -1.82 | 1.95 |
| 1700 | 67.6 | -1.7 | 2.49 |
| 1750 | 50.47 | -2.97 | 1.9 |
| 1800 | 44.69 | -3.5 | 1.27 |
| 1850 | 46.82 | -3.3 | 1.26 |
| 1900 | 52.21 | -2.82 | 1.66 |
| 1950 | 57.71 | -2.39 | 2.73 |
| 2000 | 55.85 | -2.53 | 3.26 |
| 2050 | 49.25 | -3.08 | 2.7 |
| 2100 | 53.55 | -2.71 | 1.32 |
| 2150 | 61.7 | -2.1 | 2.84 |

| Passive Test For 400-8000 | | | |
|---------------------------|-------|-------|-------|
| Freq | Effi | Effi | Gain |
| (MHz) | (%) | (dB) | (dBi) |
| 2200 | 55.93 | -2.52 | 3.23 |
| 2250 | 61.14 | -2.14 | 2.87 |
| 2300 | 65.96 | -1.81 | 2.8 |
| 2350 | 58.93 | -2.3 | 2.63 |
| 2400 | 47.93 | -3.19 | 2.87 |
| 2450 | 43.82 | -3.58 | 0.33 |
| 2500 | 54.16 | -2.66 | 2.15 |
| 2550 | 64.13 | -1.93 | 2.54 |
| 2600 | 58.71 | -2.31 | 2.48 |
| 2650 | 59.31 | -2.27 | 2.44 |
| 2700 | 61.67 | -2.1 | 3.12 |
| 2750 | 61.85 | -2.09 | 2.65 |
| 2800 | 64.05 | -1.93 | 2.25 |
| 2850 | 59.81 | -2.23 | 2.3 |
| 2900 | 62.88 | -2.01 | 3.1 |
| 2950 | 63.65 | -1.96 | 2.83 |
| 3000 | 56.83 | -2.45 | 2.46 |
| 3050 | 75.09 | -1.24 | 3.41 |
| 3100 | 76.71 | -1.15 | 3.19 |
| 3150 | 65.36 | -1.85 | 2.8 |
| 3200 | 60.14 | -2.21 | 2.35 |
| 3250 | 69.45 | -1.58 | 3.61 |
| 3300 | 62.97 | -2.01 | 3.6 |
| 3350 | 70.45 | -1.52 | 3.4 |
| 3400 | 66.37 | -1.78 | 2.25 |
| 3450 | 52.14 | -2.83 | 1.4 |
| 3500 | 55.57 | -2.55 | 1.61 |
| 3550 | 58.83 | -2.3 | 1.8 |
| 3600 | 60.8 | -2.16 | 2.23 |
| 3650 | 77.03 | -1.13 | 3.05 |
| 3700 | 80.46 | -0.94 | 3.85 |
| 3750 | 70.79 | -1.5 | 3.7 |
| 3800 | 73.02 | -1.37 | 3.92 |

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Screw Mount IP67 UV stabilized L Plate Mount

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Appendix : Measured Gain Performances Table

Antenna 2/Cable 2

| Passive Test For 400-8000 | | | |
|---------------------------|-------|-------|-------|
| Freq | Effi | Effi | Gain |
| (MHz) | (%) | (dB) | (dBi) |
| 3850 | 75.95 | -1.19 | 4.03 |
| 3900 | 77.7 | -1.1 | 4.37 |
| 3950 | 94.28 | -0.26 | 4.64 |
| 4000 | 80.04 | -0.97 | 3.97 |
| 4050 | 81.48 | -0.89 | 3.8 |
| 4100 | 85.26 | -0.69 | 4.16 |
| 4150 | 81.67 | -0.88 | 4.47 |
| 4200 | 69.41 | -1.59 | 4.08 |
| 4250 | 74.84 | -1.26 | 3.08 |
| 4300 | 75.39 | -1.23 | 3.04 |
| 4350 | 61.94 | -2.08 | 2.78 |
| 4400 | 73 | -1.37 | 4.6 |
| 4450 | 75.65 | -1.21 | 5.37 |
| 4500 | 64.37 | -1.91 | 4.45 |
| 4500 | 64.37 | -1.91 | 4.45 |
| 4550 | 55.6 | -2.55 | 3.79 |
| 4600 | 46.35 | -3.34 | 2.25 |
| 4650 | 41.93 | -3.77 | 1.39 |
| 4700 | 43.43 | -3.62 | 2.2 |
| 4750 | 42.47 | -3.72 | 2.14 |
| 4800 | 45.87 | -3.38 | 1.84 |
| 4850 | 45.4 | -3.43 | 2.01 |
| 4900 | 45.56 | -3.41 | 2.18 |
| 4950 | 42.17 | -3.75 | 1.71 |
| 5000 | 43.27 | -3.64 | 1.88 |
| 5010 | 44.92 | -3.48 | 2.11 |
| 5050 | 54.25 | -2.66 | 3.53 |

| Passive Test For 400-8000 | | | |
|---------------------------|-------|-------|-------|
| Freq | Effi | Effi | Gain |
| (MHz) | (%) | (dB) | (dBi) |
| 5100 | 55.97 | -2.52 | 4.17 |
| 5150 | 48.42 | -3.15 | 3.86 |
| 5200 | 40.49 | -3.93 | 3.52 |
| 5250 | 41.3 | -3.84 | 3.15 |
| 5300 | 51.39 | -2.89 | 3.24 |
| 5350 | 51.9 | -2.85 | 3.23 |
| 5400 | 45.79 | -3.39 | 2.55 |
| 5450 | 44.61 | -3.51 | 2.38 |
| 5500 | 43.99 | -3.57 | 2.14 |
| 5550 | 48.33 | -3.16 | 2.53 |
| 5600 | 44.63 | -3.5 | 1.95 |
| 5650 | 41.77 | -3.79 | 2.1 |
| 5700 | 41.26 | -3.84 | 2.13 |
| 5750 | 46.13 | -3.36 | 1.89 |
| 5800 | 51.43 | -2.89 | 1.83 |
| 5850 | 49.08 | -3.09 | 1.59 |
| 5900 | 37.19 | -4.3 | 0.92 |
| 5950 | 39.21 | -4.07 | 1.44 |
| 6000 | 44.29 | -3.54 | 2.08 |
| 6050 | 60.44 | -2.19 | 3.2 |
| 6100 | 56.47 | -2.48 | 2.98 |
| 6150 | 53.32 | -2.73 | 3.01 |
| 6200 | 53.11 | -2.75 | 2.76 |
| 6250 | 56.63 | -2.47 | 2.9 |
| 6300 | 59.47 | -2.26 | 3.5 |
| 6350 | 54.33 | -2.65 | 3.69 |
| 6400 | 51.68 | -2.87 | 3.57 |
| 6450 | 56.35 | -2.49 | 4.04 |
| 6500 | 68.79 | -1.62 | 4.48 |
| 6550 | 69.33 | -1.59 | 4.55 |
| 6600 | 62.7 | -2.03 | 4.35 |

Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

Appendix : Measured Gain Performances Table Antenna 2/Cable 2

| Passive Test For 400-8000 | | | |
|---------------------------|-------------|--------------|---------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 6650 | 59.2 | -2.28 | 4.3 |
| 6700 | 62.92 | -2.01 | 5.01 |
| 6750 | 61.23 | -2.13 | 4.53 |
| 6800 | 55.25 | -2.58 | 4.05 |
| 6850 | 56.58 | -2.47 | 4.03 |
| 6900 | 55.75 | -2.54 | 3.92 |
| 6950 | 45.98 | -3.37 | 2.91 |
| 7000 | 40.29 | -3.95 | 2.71 |
| 7050 | 39.26 | -4.06 | 1.82 |
| 7100 | 42.46 | -3.72 | 1.88 |
| 7150 | 43.76 | -3.59 | 2.15 |
| 7200 | 39.72 | -4.01 | 1.53 |
| 7250 | 32.57 | -4.87 | 0.94 |
| 7300 | 32.44 | -4.89 | 1.11 |
| 7350 | 34.02 | -4.68 | 0.54 |
| 7400 | 36.69 | -4.35 | 0.22 |
| 7450 | 40.95 | -3.88 | 0.91 |
| 7500 | 44.15 | -3.55 | 1.23 |
| 7550 | 50.84 | -2.94 | 1.48 |
| 7600 | 47.05 | -3.27 | 0.43 |
| 7650 | 38.91 | -4.1 | 0.35 |
| 7700 | 37.71 | -4.24 | 0.34 |
| 7750 | 43.31 | -3.63 | 1.28 |
| 7800 | 47.08 | -3.27 | 1.74 |
| 7850 | 45.72 | -3.4 | 1.35 |
| 7900 | 44.52 | -3.51 | 1.16 |
| 7950 | 48.02 | -3.19 | 1.53 |
| 8000 | 46.63 | -3.31 | 1.49 |

Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

Appendix : Measured Gain Performances Table Antenna 3/Cable 3

| Passive Test For 400-8000 | | | |
|---------------------------|-------|-------|-------|
| Freq | Effi | Effi | Gain |
| (MHz) | (%) | (dB) | (dBi) |
| 600 | 21.16 | -6.74 | -1.84 |
| 650 | 29.47 | -5.31 | -1.13 |
| 700 | 27.62 | -5.59 | -0.39 |
| 750 | 26.5 | -5.77 | -0.37 |
| 800 | 31.9 | -4.96 | -1.09 |
| 850 | 40.98 | -3.87 | 0.51 |
| 900 | 68.71 | -1.63 | 2.18 |
| 950 | 60.57 | -2.18 | 1.53 |
| 1000 | 57.11 | -2.43 | 2.06 |
| 1050 | 25.18 | -5.99 | -0.9 |
| 1100 | 15.67 | -8.05 | -3.36 |
| 1150 | 32.21 | -4.92 | -0.67 |
| 1200 | 38.42 | -4.15 | 0.9 |
| 1250 | 38.77 | -4.12 | 2.28 |
| 1300 | 45.38 | -3.43 | 2.81 |
| 1350 | 51.15 | -2.91 | 1.92 |
| 1400 | 38.58 | -4.14 | 0.72 |
| 1450 | 48.19 | -3.17 | 1.96 |
| 1500 | 46.96 | -3.28 | 1.18 |
| 1550 | 40.07 | -3.97 | 1.34 |
| 1600 | 55.75 | -2.54 | 1.55 |
| 1650 | 64.93 | -1.88 | 2.31 |
| 1700 | 68.09 | -1.67 | 3.21 |
| 1750 | 53.56 | -2.71 | 1.97 |
| 1800 | 50.02 | -3.01 | 1.23 |
| 1850 | 46.17 | -3.36 | 0.84 |
| 1900 | 54.07 | -2.67 | 2.29 |
| 1950 | 61.92 | -2.08 | 2.93 |
| 2000 | 59.83 | -2.23 | 3.35 |

| Passive Test For 400-8000 | | | |
|---------------------------|-------|-------|-------|
| Freq | Effi | Effi | Gain |
| (MHz) | (%) | (dB) | (dBi) |
| 2050 | 50.34 | -2.98 | 2.82 |
| 2100 | 52.18 | -2.83 | 2.78 |
| 2150 | 60.55 | -2.18 | 2.3 |
| 2200 | 58.83 | -2.3 | 2.3 |
| 2250 | 66.46 | -1.77 | 3.26 |
| 2300 | 70.25 | -1.53 | 3.5 |
| 2350 | 57.45 | -2.41 | 2.66 |
| 2400 | 45.46 | -3.42 | 1.77 |
| 2450 | 44.76 | -3.49 | 1.58 |
| 2500 | 54.04 | -2.67 | 2.32 |
| 2550 | 58.49 | -2.33 | 2.28 |
| 2600 | 57.64 | -2.39 | 1.89 |
| 2650 | 55.65 | -2.55 | 1.74 |
| 2700 | 59.83 | -2.23 | 2.27 |
| 2750 | 63.26 | -1.99 | 2.4 |
| 2800 | 61.36 | -2.12 | 2.65 |
| 2850 | 57.28 | -2.42 | 2.74 |
| 2900 | 60.87 | -2.16 | 3.53 |
| 2950 | 63.22 | -1.99 | 3.47 |
| 3000 | 58.87 | -2.3 | 2.52 |
| 3050 | 81.32 | -0.9 | 3.73 |
| 3100 | 83.49 | -0.78 | 3.82 |
| 3150 | 65.47 | -1.84 | 2.6 |
| 3200 | 57.32 | -2.42 | 1.75 |
| 3250 | 68.1 | -1.67 | 2.53 |
| 3300 | 65.91 | -1.81 | 1.73 |
| 3350 | 72.64 | -1.39 | 3.46 |
| 3400 | 67.25 | -1.72 | 3.24 |
| 3450 | 53.77 | -2.69 | 1.96 |
| 3500 | 57.65 | -2.39 | 2.48 |

Maswell Cellular 5G/4G 8X8 MIMO Antenna

Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

Appendix : Measured Gain Performances Table

Antenna 3/Cable 3

| Passive Test For 400-8000 | | | |
|---------------------------|-------|-------|-------|
| Freq | Effi | Effi | Gain |
| (MHz) | (%) | (dB) | (dBi) |
| 3500 | 57.65 | -2.39 | 2.48 |
| 3550 | 60.34 | -2.19 | 2.37 |
| 3600 | 63.69 | -1.96 | 2.55 |
| 3650 | 79.01 | -1.02 | 4.23 |
| 3700 | 83.82 | -0.77 | 4.35 |
| 3750 | 75.15 | -1.24 | 3.82 |
| 3800 | 75.15 | -1.24 | 4.4 |
| 3850 | 75.42 | -1.23 | 4.55 |
| 3900 | 73.74 | -1.32 | 4.31 |
| 3950 | 88.92 | -0.51 | 4.82 |
| 4000 | 75.61 | -1.21 | 3.89 |
| 4050 | 79.6 | -0.99 | 3.47 |
| 4100 | 84.11 | -0.75 | 4.55 |
| 4150 | 77.58 | -1.1 | 4.63 |
| 4200 | 65.3 | -1.85 | 3.19 |
| 4250 | 75.41 | -1.23 | 3.53 |
| 4300 | 76.62 | -1.16 | 3.75 |
| 4350 | 64.74 | -1.89 | 3.13 |
| 4400 | 73.35 | -1.35 | 4.68 |
| 4450 | 74.34 | -1.29 | 3.63 |
| 4500 | 68.42 | -1.65 | 3.23 |
| 4550 | 60.48 | -2.18 | 2.89 |
| 4600 | 49.2 | -3.08 | 2.22 |
| 4650 | 44.47 | -3.52 | 1.18 |
| 4700 | 47.18 | -3.26 | 2.09 |
| 4750 | 46.16 | -3.36 | 2.1 |
| 4800 | 48.43 | -3.15 | 2.26 |
| 4850 | 45.89 | -3.38 | 2.61 |
| 4900 | 46.91 | -3.29 | 2.52 |
| 4950 | 44.68 | -3.5 | 2.6 |

| Passive Test For 400-8000 | | | |
|---------------------------|-------|-------|-------|
| Freq | Effi | Effi | Gain |
| (MHz) | (%) | (dB) | (dBi) |
| 5000 | 45.67 | -3.4 | 3.14 |
| 5010 | 47.77 | -3.21 | 3.25 |
| 5020 | 48.36 | -3.16 | 3.29 |
| 5030 | 56.26 | -2.5 | 3.98 |
| 5040 | 57.57 | -2.4 | 4.01 |
| 5050 | 55.7 | -2.54 | 3.86 |
| 5100 | 56.22 | -2.5 | 3.63 |
| 5150 | 50.33 | -2.98 | 2.29 |
| 5200 | 42.83 | -3.68 | 0.97 |
| 5250 | 48.25 | -3.17 | 1.71 |
| 5300 | 59.2 | -2.28 | 2.72 |
| 5350 | 56.6 | -2.47 | 2.45 |
| 5400 | 48.41 | -3.15 | 1.71 |
| 5450 | 46.34 | -3.34 | 1.42 |
| 5500 | 45.61 | -3.41 | 1.9 |
| 5550 | 50.42 | -2.97 | 2.58 |
| 5600 | 46.01 | -3.37 | 2.5 |
| 5650 | 45.72 | -3.4 | 2.46 |
| 5700 | 49.06 | -3.09 | 2.37 |
| 5750 | 54.89 | -2.61 | 3.17 |
| 5800 | 58.91 | -2.3 | 3.47 |
| 5850 | 53.93 | -2.68 | 2.68 |
| 5900 | 42.99 | -3.67 | 2 |
| 5950 | 47.86 | -3.2 | 2.43 |
| 6000 | 51.93 | -2.85 | 2.72 |

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Screw Mount IP67 UV stabilized L Plate Mount

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Appendix : Measured Gain Performances Table

Antenna 3/Cable 3

| Passive Test For 400-8000 | | | |
|---------------------------|-------|-------|-------|
| Freq | Effi | Effi | Gain |
| (MHz) | (%) | (dB) | (dBi) |
| 6050 | 67.04 | -1.74 | 3.68 |
| 6100 | 60.33 | -2.19 | 3.41 |
| 6150 | 56.91 | -2.45 | 3.66 |
| 6200 | 56.57 | -2.47 | 3.64 |
| 6250 | 56.76 | -2.46 | 3.69 |
| 6300 | 56.45 | -2.48 | 3.33 |
| 6350 | 51.77 | -2.86 | 2.86 |
| 6400 | 51.57 | -2.88 | 3.47 |
| 6450 | 56.33 | -2.49 | 3.86 |
| 6500 | 64.99 | -1.87 | 4.44 |
| 6550 | 61.58 | -2.11 | 4.18 |
| 6600 | 56.73 | -2.46 | 3.75 |
| 6650 | 56.78 | -2.46 | 3.55 |
| 6700 | 60.74 | -2.17 | 3.85 |
| 6750 | 58.59 | -2.32 | 3.8 |
| 6800 | 54.46 | -2.64 | 3.81 |
| 6850 | 56.76 | -2.46 | 4.07 |
| 6900 | 53.67 | -2.7 | 3.73 |
| 6950 | 42.83 | -3.68 | 2.53 |
| 7000 | 42.25 | -3.74 | 2.88 |
| 7050 | 46.61 | -3.32 | 3.42 |
| 7100 | 49.7 | -3.04 | 3.46 |
| 7150 | 44.96 | -3.47 | 2.8 |
| 7200 | 39.68 | -4.01 | 2.31 |
| 7250 | 37.78 | -4.23 | 1.86 |
| 7300 | 39.18 | -4.07 | 1.15 |

| Passive Test For 400-8000 | | | |
|---------------------------|-------|-------|-------|
| Freq | Effi | Effi | Gain |
| (MHz) | (%) | (dB) | (dBi) |
| 7350 | 38.5 | -4.15 | 1.1 |
| 7400 | 38.27 | -4.17 | 0.87 |
| 7450 | 39.58 | -4.03 | 1.45 |
| 7500 | 44.98 | -3.47 | 1.62 |
| 7550 | 50.86 | -2.94 | 1.98 |
| 7600 | 41.2 | -3.85 | 0.52 |
| 7650 | 30.7 | -5.13 | -0.89 |
| 7700 | 30.88 | -5.1 | -0.41 |
| 7750 | 40.98 | -3.87 | 0.91 |
| 7800 | 48.5 | -3.14 | 1.7 |
| 7850 | 44.12 | -3.55 | 2.22 |
| 7900 | 39.31 | -4.05 | 1.81 |
| 7950 | 42.62 | -3.7 | 2.01 |
| 8000 | 41.62 | -3.81 | 1.65 |

Maswell Cellular 5G/4G 8X8 MIMO Antenna

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Appendix : Measured Gain Performances Table

Antenna4 /Cable 4

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 400 | 83.57 | -0.78 | 2.51 |
| 450 | 61.07 | -2.14 | 1.66 |
| 500 | 17.62 | -7.54 | -3.02 |
| 500 | 17.62 | -7.54 | -3.02 |
| 550 | 55.16 | -2.58 | 1.38 |
| 600 | 27.78 | -5.56 | 0.55 |
| 650 | 26.09 | -5.84 | -1.91 |
| 700 | 25.93 | -5.86 | -0.81 |
| 750 | 25.05 | -6.01 | -2.41 |
| 800 | 22.23 | -6.53 | -3.79 |
| 850 | 39.44 | -4.04 | -1.13 |
| 900 | 54.75 | -2.62 | 0.03 |
| 950 | 64.42 | -1.91 | 0.93 |
| 1000 | 55.18 | -2.58 | 2.17 |
| 1050 | 33.95 | -4.69 | 0.73 |
| 1100 | 13.27 | -8.77 | -3.22 |
| 1150 | 23.66 | -6.26 | -0.98 |
| 1200 | 41.94 | -3.77 | 1.11 |
| 1250 | 49.68 | -3.04 | 1.93 |
| 1300 | 52.8 | -2.77 | 2.04 |
| 1350 | 49.64 | -3.04 | 1.8 |
| 1400 | 28.54 | -5.45 | -1.63 |
| 1450 | 53.26 | -2.74 | 3.16 |
| 1500 | 37.01 | -4.32 | -0.14 |
| 1500 | 37.01 | -4.32 | -0.14 |
| 1550 | 40.6 | -3.91 | 0.96 |
| 1600 | 48.1 | -3.18 | 1.71 |
| 1650 | 58.55 | -2.32 | 3.18 |
| 1700 | 57.8 | -2.38 | 2.72 |
| 1750 | 45.53 | -3.42 | 0.91 |
| 1800 | 43.29 | -3.64 | 0.39 |

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 1850 | 45.73 | -3.4 | 1.11 |
| 1900 | 48.91 | -3.11 | 2.07 |
| 1950 | 61.93 | -2.08 | 3.03 |
| 2000 | 58.7 | -2.31 | 2.53 |
| 2050 | 46.55 | -3.32 | 2.17 |
| 2100 | 53.86 | -2.69 | 1.58 |
| 2150 | 57 | -2.44 | 1.8 |
| 2200 | 59.26 | -2.27 | 3.33 |
| 2250 | 60.09 | -2.21 | 3.81 |
| 2300 | 64.64 | -1.89 | 3.84 |
| 2350 | 57.74 | -2.39 | 2.89 |
| 2400 | 41.65 | -3.8 | 1.29 |
| 2450 | 40.8 | -3.89 | 0.89 |
| 2500 | 50.86 | -2.94 | 1.99 |
| 2550 | 56.98 | -2.44 | 2.74 |
| 2600 | 53.54 | -2.71 | 2.61 |
| 2650 | 55.77 | -2.54 | 2.78 |
| 2700 | 57.19 | -2.43 | 2.22 |
| 2750 | 63.98 | -1.94 | 2.32 |
| 2800 | 64.41 | -1.91 | 2.28 |
| 2850 | 57.49 | -2.4 | 2.33 |
| 2900 | 61.8 | -2.09 | 2.83 |
| 2950 | 65.04 | -1.87 | 3.18 |
| 3000 | 61.96 | -2.08 | 3.29 |
| 3050 | 82.05 | -0.86 | 4.57 |
| 3100 | 83.48 | -0.78 | 4.45 |
| 3150 | 67.21 | -1.73 | 3.67 |
| 3200 | 58.37 | -2.34 | 2.74 |
| 3250 | 69.68 | -1.57 | 3 |
| 3300 | 67.75 | -1.69 | 2.76 |

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Appendix : Measured Gain Performances Table

Antenna4 /Cable 4

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 3100 | 83.48 | -0.78 | 4.45 |
| 3150 | 67.21 | -1.73 | 3.67 |
| 3200 | 58.37 | -2.34 | 2.74 |
| 3250 | 69.68 | -1.57 | 3 |
| 3300 | 67.75 | -1.69 | 2.76 |
| 3350 | 73.05 | -1.36 | 2.66 |
| 3400 | 68.44 | -1.65 | 2.45 |
| 3450 | 54.83 | -2.61 | 1.9 |
| 3500 | 63.42 | -1.98 | 3.19 |
| 3550 | 64.35 | -1.91 | 3.18 |
| 3600 | 65.65 | -1.83 | 3.41 |
| 3650 | 80.99 | -0.92 | 4.84 |
| 3700 | 85.65 | -0.67 | 5.32 |
| 3750 | 75 | -1.25 | 4.3 |
| 3800 | 71.14 | -1.48 | 3.87 |
| 3850 | 70.36 | -1.53 | 3.54 |
| 3900 | 71.7 | -1.45 | 3.51 |
| 3950 | 86.29 | -0.64 | 4.78 |
| 4000 | 74.9 | -1.25 | 4.21 |
| 4050 | 73.39 | -1.34 | 3.37 |
| 4100 | 74.13 | -1.3 | 2.77 |
| 4150 | 71.49 | -1.46 | 3.11 |
| 4200 | 61.8 | -2.09 | 3.45 |
| 4250 | 73.33 | -1.35 | 4.16 |
| 4300 | 78.64 | -1.04 | 3.97 |
| 4350 | 64.22 | -1.92 | 3.03 |
| 4400 | 70.02 | -1.55 | 4.44 |
| 4450 | 69.52 | -1.58 | 4.17 |

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 4500 | 67.98 | -1.68 | 4.64 |
| 4550 | 63.47 | -1.97 | 5.18 |
| 4600 | 53.08 | -2.75 | 4.44 |
| 4650 | 45.51 | -3.42 | 2.14 |
| 4700 | 39.23 | -4.06 | 1.04 |
| 4750 | 43.65 | -3.6 | 2 |
| 4800 | 46.84 | -3.29 | 1.84 |
| 4850 | 46.06 | -3.37 | 2.16 |
| 4900 | 47.93 | -3.19 | 2.21 |
| 4950 | 46.58 | -3.32 | 1.97 |
| 5000 | 45.09 | -3.46 | 1.78 |
| 5050 | 52.51 | -2.8 | 2.41 |
| 5060 | 46.88 | -3.29 | 2.06 |
| 5070 | 55.14 | -2.59 | 2.95 |
| 5080 | 57.65 | -2.39 | 3.28 |
| 5090 | 58.2 | -2.35 | 3.52 |
| 5100 | 52.69 | -2.78 | 3.32 |
| 5150 | 49.2 | -3.08 | 3.96 |
| 5200 | 46.6 | -3.32 | 3.81 |
| 5250 | 49.81 | -3.03 | 3.66 |
| 5300 | 53.32 | -2.73 | 3.12 |
| 5350 | 51.94 | -2.85 | 2.01 |
| 5400 | 46.79 | -3.3 | 1.36 |
| 5450 | 46.3 | -3.34 | 1.36 |
| 5500 | 48.29 | -3.16 | 2.06 |
| 5550 | 51.06 | -2.92 | 2.42 |
| 5600 | 45.88 | -3.38 | 1.62 |
| 5650 | 46.17 | -3.36 | 2.03 |
| 5700 | 51.58 | -2.88 | 2.11 |

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Appendix : Measured Gain Performances Table Antenna4 /Cable 4

| Passive Test For 400-8000 | | | | Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) | Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 5750 | 61.18 | -2.13 | 2.66 | 6950 | 49.3 | -3.07 | 3.33 |
| 5800 | 62.77 | -2.02 | 3.35 | 7000 | 44.57 | -3.51 | 2.59 |
| 5850 | 58 | -2.37 | 2.96 | 7050 | 47.83 | -3.2 | 3.07 |
| 5900 | 47.06 | -3.27 | 2.23 | 7100 | 51.57 | -2.88 | 3.6 |
| 5950 | 54.95 | -2.6 | 2.81 | 7150 | 46 | -3.37 | 2.73 |
| 6000 | 60.48 | -2.18 | 3.12 | 7200 | 39.61 | -4.02 | 1.5 |
| 6050 | 70.71 | -1.51 | 4.27 | 7250 | 36.1 | -4.42 | 0.24 |
| 6100 | 59.93 | -2.22 | 2.98 | 7300 | 37.54 | -4.26 | 0.52 |
| 6150 | 55.39 | -2.57 | 2.66 | 7350 | 36.5 | -4.38 | 0.66 |
| 6200 | 55.42 | -2.56 | 2.95 | 7400 | 38.1 | -4.19 | 1.03 |
| 6250 | 58.18 | -2.35 | 3.43 | 7450 | 40.06 | -3.97 | 0.95 |
| 6300 | 58.34 | -2.34 | 3.39 | 7500 | 45.15 | -3.45 | 1.85 |
| 6350 | 51.93 | -2.85 | 2.94 | 7550 | 52.08 | -2.83 | 2.22 |
| 6400 | 52.31 | -2.81 | 3.54 | 7600 | 41.54 | -3.82 | 0.93 |
| 6450 | 59.65 | -2.24 | 4.12 | 7650 | 32.88 | -4.83 | -0.13 |
| 6500 | 72.99 | -1.37 | 5.07 | 7700 | 32.17 | -4.92 | -0.76 |
| 6550 | 72.93 | -1.37 | 4.81 | 7750 | 39.97 | -3.98 | 0.19 |
| 6600 | 66.96 | -1.74 | 4.33 | 7800 | 48.83 | -3.11 | 1.03 |
| 6650 | 66.51 | -1.77 | 4.43 | 7850 | 43.71 | -3.59 | 0.49 |
| 6700 | 71.93 | -1.43 | 4.94 | 7900 | 41.09 | -3.86 | 0.49 |
| 6750 | 68.09 | -1.67 | 4.99 | 7950 | 41.53 | -3.82 | 0.09 |
| 6800 | 62.42 | -2.05 | 4.9 | 8000 | 40.1 | -3.97 | 0.79 |
| 6850 | 65.61 | -1.83 | 4.98 | | | | |
| 6900 | 61.12 | -2.14 | 4.56 | | | | |

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Appendix : Measured Gain Performances Table

Antenna5 /Cable 5

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 700 | 5.57 | -12.54 | -8.25 |
| 750 | 9.71 | -10.13 | -6.12 |
| 800 | 24.09 | -6.18 | -0.56 |
| 850 | 17.07 | -7.68 | -3.48 |
| 900 | 24.16 | -6.17 | -1.33 |
| 950 | 38.04 | -4.2 | -0.06 |
| 1000 | 43.77 | -3.59 | 1.42 |
| 1050 | 35.7 | -4.47 | 1.37 |
| 1100 | 39.18 | -4.07 | 0.9 |
| 1150 | 42.01 | -3.77 | 0.1 |
| 1200 | 36.26 | -4.41 | -0.97 |
| 1250 | 45.91 | -3.38 | 1.84 |
| 1300 | 49.95 | -3.01 | 1.26 |
| 1350 | 40.87 | -3.89 | 0.21 |
| 1400 | 36.88 | -4.33 | -0.32 |
| 1450 | 37.79 | -4.23 | -0.58 |
| 1500 | 38.5 | -4.14 | 0.05 |
| 1550 | 41.55 | -3.81 | 0.17 |
| 1600 | 41.9 | -3.78 | -0.61 |
| 1650 | 47.24 | -3.26 | 2.14 |
| 1700 | 56.58 | -2.47 | 2.68 |
| 1750 | 49.95 | -3.01 | 1.16 |
| 1800 | 38.72 | -4.12 | -0.25 |
| 1850 | 35.71 | -4.47 | 1.34 |
| 1900 | 36.6 | -4.36 | 0.93 |
| 1950 | 38.95 | -4.1 | 0.41 |
| 2000 | 34.55 | -4.62 | -1.03 |
| 2050 | 26.57 | -5.76 | -1.61 |
| 2100 | 27.78 | -5.56 | -0.76 |
| 2150 | 37.39 | -4.27 | -0.17 |
| 2200 | 35.62 | -4.48 | -0.32 |

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 2250 | 35.89 | -4.45 | -0.17 |
| 2300 | 46.51 | -3.32 | 1.6 |
| 2350 | 44.69 | -3.5 | 1.83 |
| 2400 | 40.63 | -3.91 | 1.2 |
| 2450 | 41.25 | -3.85 | 0.52 |
| 2500 | 50.25 | -2.99 | 2.06 |
| 2550 | 54.98 | -2.6 | 3 |
| 2600 | 51.61 | -2.87 | 3.94 |
| 2650 | 46.07 | -3.37 | 3.17 |
| 2700 | 43.38 | -3.63 | 2.71 |
| 2750 | 48.99 | -3.1 | 3.24 |
| 2800 | 46.92 | -3.29 | 2.93 |
| 2850 | 37.69 | -4.24 | 2.68 |
| 2900 | 35.8 | -4.46 | 2.33 |
| 2950 | 30.22 | -5.2 | 0.31 |
| 3000 | 19.25 | -7.16 | -1.86 |
| 3050 | 39.88 | -3.99 | -0.19 |
| 3100 | 51.77 | -2.86 | 1.39 |
| 3150 | 52.02 | -2.84 | 2.01 |
| 3200 | 47.88 | -3.2 | 2.04 |
| 3250 | 48.24 | -3.17 | 2.93 |
| 3300 | 45.36 | -3.43 | 2.7 |
| 3350 | 55.9 | -2.53 | 3.45 |
| 3400 | 55.77 | -2.54 | 2.99 |
| 3450 | 39.62 | -4.02 | 0.96 |
| 3500 | 40.59 | -3.92 | 1.07 |
| 3550 | 37.31 | -4.28 | 0.88 |
| 3600 | 32.33 | -4.9 | 0.46 |
| 3650 | 46.48 | -3.33 | 1.81 |
| 3700 | 53.78 | -2.69 | 2.44 |
| 3750 | 37.35 | -4.28 | 0.07 |

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Appendix : Measured Gain Performances Table Antenna5 /Cable 5

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 3800 | 36.31 | -4.4 | 0.44 |
| 3850 | 45.37 | -3.43 | 0.4 |
| 3900 | 53.25 | -2.74 | 1.61 |
| 3950 | 64.36 | -1.91 | 2.2 |
| 4000 | 56 | -2.52 | 1.84 |
| 4050 | 66.38 | -1.78 | 2.51 |
| 4100 | 77.2 | -1.12 | 3.45 |
| 4150 | 69.68 | -1.57 | 3.16 |
| 4200 | 59.2 | -2.28 | 2.71 |
| 4250 | 67.35 | -1.72 | 3.5 |
| 4300 | 67.99 | -1.68 | 3.85 |
| 4350 | 54.29 | -2.65 | 2.2 |
| 4400 | 58.5 | -2.33 | 1.74 |
| 4450 | 60.02 | -2.22 | 2.19 |
| 4500 | 50.96 | -2.93 | 2.12 |
| 4550 | 43.75 | -3.59 | 1.41 |
| 4600 | 39.23 | -4.06 | 1.36 |
| 4650 | 38.01 | -4.2 | 1.1 |
| 4700 | 31.44 | -5.03 | -0.26 |
| 4750 | 28.09 | -5.51 | -0.55 |
| 4800 | 31.55 | -5.01 | 0.03 |
| 4850 | 34.19 | -4.66 | 0.48 |
| 4900 | 37.5 | -4.26 | 1.67 |
| 4950 | 37.82 | -4.22 | 1.67 |
| 5000 | 40.31 | -3.95 | 2.14 |
| 5010 | 42.76 | -3.69 | 2.54 |
| 5020 | 44.31 | -3.53 | 2.63 |
| 5030 | 50.57 | -2.96 | 3.03 |
| 5040 | 49.69 | -3.04 | 2.61 |
| 5050 | 46.97 | -3.28 | 2.13 |

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 5100 | 46.49 | -3.33 | 0.7 |
| 5150 | 41.98 | -3.77 | 0.89 |
| 5200 | 40.55 | -3.92 | 1.19 |
| 5250 | 44.12 | -3.55 | 1.4 |
| 5300 | 46.75 | -3.3 | 1.07 |
| 5350 | 43.43 | -3.62 | 1.34 |
| 5400 | 41.75 | -3.79 | 0.92 |
| 5450 | 43.92 | -3.57 | 0.99 |
| 5500 | 43.26 | -3.64 | 1 |
| 5550 | 43.58 | -3.61 | 0.62 |
| 5600 | 38.54 | -4.14 | 0.61 |
| 5650 | 33.96 | -4.69 | 0.12 |
| 5700 | 29.13 | -5.36 | -0.26 |
| 5750 | 29.95 | -5.24 | -0.78 |
| 5800 | 34.84 | -4.58 | -0.33 |
| 5850 | 39.15 | -4.07 | 1.01 |
| 5900 | 28.26 | -5.49 | 0.19 |
| 5950 | 29.99 | -5.23 | 0.95 |
| 6000 | 31.95 | -4.96 | 1.59 |
| 6050 | 43.44 | -3.62 | 3.09 |
| 6100 | 40.73 | -3.9 | 2.07 |
| 6150 | 42.5 | -3.72 | 1.89 |
| 6200 | 45.59 | -3.41 | 2.46 |
| 6250 | 46.17 | -3.36 | 3.22 |
| 6300 | 40.12 | -3.97 | 2.65 |
| 6350 | 35.53 | -4.49 | 1.97 |
| 6400 | 40.32 | -3.94 | 2.14 |
| 6450 | 50.9 | -2.93 | 3.39 |
| 6500 | 53.5 | -2.72 | 2.75 |

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Appendix : Measured Gain Performances Table Antenna5 /Cable 5

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 6550 | 42.45 | -3.72 | 1.77 |
| 6600 | 36.72 | -4.35 | 1.59 |
| 6650 | 38.46 | -4.15 | 1.39 |
| 6700 | 36.22 | -4.41 | 0.95 |
| 6750 | 28.83 | -5.4 | -0.24 |
| 6800 | 26.34 | -5.79 | -0.73 |
| 6850 | 28.47 | -5.46 | -0.05 |
| 6900 | 20.9 | -6.8 | -1.1 |
| 6950 | 14.12 | -8.5 | -1.77 |
| 7000 | 15.07 | -8.22 | -1.48 |
| 7050 | 23.02 | -6.38 | -0.24 |
| 7100 | 25.96 | -5.86 | -0.41 |
| 7150 | 20.15 | -6.96 | -1.65 |
| 7200 | 17.44 | -7.58 | -2.36 |
| 7250 | 19.1 | -7.19 | -2.41 |
| 7300 | 23 | -6.38 | -1.27 |
| 7350 | 22.98 | -6.39 | -1.24 |
| 7400 | 22.1 | -6.56 | -1.04 |
| 7450 | 26.24 | -5.81 | -0.11 |
| 7500 | 31.75 | -4.98 | 1.29 |
| 7550 | 31.37 | -5.04 | 2.16 |
| 7600 | 23.54 | -6.28 | 1.11 |
| 7650 | 20.83 | -6.81 | 0.57 |
| 7700 | 27.47 | -5.61 | 1.03 |
| 7750 | 40.85 | -3.89 | 2.38 |
| 7800 | 41.87 | -3.78 | 1.76 |
| 7850 | 34.21 | -4.66 | 0.34 |
| 7900 | 34.35 | -4.64 | 0.47 |
| 7950 | 36.92 | -4.33 | 0.69 |
| 8000 | 37.01 | -4.32 | 0.48 |

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Appendix : Measured Gain Performances Table

Antenna6 /Cable 6

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 700 | 5.8 | -12.37 | -7.2 |
| 750 | 9.92 | -10.04 | -6.95 |
| 800 | 24.34 | -6.14 | -1.76 |
| 850 | 24.34 | -6.14 | -1.19 |
| 900 | 36.47 | -4.38 | -0.08 |
| 950 | 40.76 | -3.9 | 1.42 |
| 1000 | 43.44 | -3.62 | 0.22 |
| 1050 | 47.65 | -3.22 | 1.1 |
| 1100 | 52.7 | -2.78 | 1.26 |
| 1150 | 45.01 | -3.47 | 0.23 |
| 1200 | 30.54 | -5.15 | -0.52 |
| 1250 | 38.05 | -4.2 | 0.17 |
| 1300 | 45.14 | -3.45 | 2.16 |
| 1350 | 55.22 | -2.58 | 1.73 |
| 1400 | 59.91 | -2.23 | 2.92 |
| 1450 | 51.2 | -2.91 | 3.55 |
| 1500 | 43.21 | -3.64 | 1.12 |
| 1550 | 49.43 | -3.06 | 2.26 |
| 1600 | 48.17 | -3.17 | 0.81 |
| 1650 | 53.25 | -2.74 | 2.21 |
| 1700 | 47.71 | -3.21 | 1.73 |
| 1750 | 39.36 | -4.05 | 1.14 |
| 1800 | 31.53 | -5.01 | 1.37 |
| 1850 | 28.22 | -5.49 | 0.68 |
| 1900 | 26.93 | -5.7 | 0.08 |
| 1950 | 35.24 | -4.53 | 0.24 |
| 2000 | 35.04 | -4.55 | 1.47 |
| 2050 | 28.99 | -5.38 | 0.52 |

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 2100 | 34.61 | -4.61 | 0.35 |
| 2150 | 33.7 | -4.72 | 0.86 |
| 2200 | 40.6 | -3.91 | 1.74 |
| 2250 | 40.65 | -3.91 | 2.46 |
| 2300 | 45.01 | -3.47 | 2.27 |
| 2350 | 37.4 | -4.27 | 0.1 |
| 2400 | 38.7 | -4.12 | 1.23 |
| 2450 | 41.74 | -3.79 | 1.19 |
| 2500 | 50.87 | -2.94 | 1.46 |
| 2550 | 57.57 | -2.4 | 2.39 |
| 2600 | 54.6 | -2.63 | 2.41 |
| 2650 | 47.79 | -3.21 | 1.57 |
| 2700 | 46.86 | -3.29 | 1.93 |
| 2750 | 50.79 | -2.94 | 2.27 |
| 2800 | 45.63 | -3.41 | 2.07 |
| 2850 | 34.06 | -4.68 | 0.43 |
| 2900 | 35.94 | -4.44 | 0.58 |
| 2950 | 41.22 | -3.85 | 0.67 |
| 3000 | 35.92 | -4.45 | 1.32 |
| 3050 | 47.07 | -3.27 | 2.53 |
| 3100 | 56.46 | -2.48 | 2.25 |
| 3150 | 53.49 | -2.72 | 2.79 |
| 3200 | 49.24 | -3.08 | 2.42 |
| 3250 | 54.92 | -2.6 | 3.3 |
| 3300 | 44.16 | -3.55 | 2.08 |
| 3350 | 49.17 | -3.08 | 1.1 |
| 3400 | 53.26 | -2.74 | 1.31 |
| 3450 | 40.21 | -3.96 | -0.34 |

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Appendix : Measured Gain Performances Table

Antenna6 /Cable 6

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 3500 | 43.65 | -3.6 | 0.23 |
| 3550 | 43.16 | -3.65 | 0.28 |
| 3600 | 38.75 | -4.12 | -0.22 |
| 3650 | 48.64 | -3.13 | 0.49 |
| 3700 | 52.73 | -2.78 | 2.49 |
| 3750 | 41.61 | -3.81 | 1.32 |
| 3800 | 38.24 | -4.18 | 0.02 |
| 3850 | 47.12 | -3.27 | 0.52 |
| 3900 | 55.71 | -2.54 | 2.16 |
| 3950 | 70.85 | -1.5 | 2.78 |
| 4000 | 63.31 | -1.99 | 2.62 |
| 4050 | 67.95 | -1.68 | 3.06 |
| 4100 | 71.45 | -1.46 | 3.01 |
| 4150 | 70.62 | -1.51 | 4.69 |
| 4200 | 62.42 | -2.05 | 5.07 |
| 4250 | 64.88 | -1.88 | 5.14 |
| 4300 | 62.59 | -2.03 | 4.45 |
| 4350 | 49.37 | -3.07 | 2.91 |
| 4400 | 52.47 | -2.8 | 3.1 |
| 4450 | 46.57 | -3.32 | 2.74 |
| 4500 | 36.34 | -4.4 | 2.3 |
| 4550 | 32.93 | -4.82 | 2.17 |
| 4600 | 29.82 | -5.25 | 1.5 |
| 4650 | 30.85 | -5.11 | 0.7 |
| 4700 | 31.36 | -5.04 | 1.49 |
| 4750 | 37.11 | -4.31 | 1.48 |
| 4800 | 42.71 | -3.7 | 1.82 |
| 4850 | 39.83 | -4 | 2 |

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 4900 | 37.02 | -4.32 | 1.95 |
| 4950 | 34.94 | -4.57 | 2.06 |
| 5000 | 37.44 | -4.27 | 2.98 |
| 5050 | 45.14 | -3.45 | 3.87 |
| 5100 | 42.36 | -3.73 | 3.54 |
| 5150 | 37.09 | -4.31 | 2.55 |
| 5200 | 40.29 | -3.95 | 2.37 |
| 5250 | 47.13 | -3.27 | 3.51 |
| 5300 | 46.5 | -3.33 | 3.65 |
| 5350 | 40.9 | -3.88 | 2.31 |
| 5400 | 40.84 | -3.89 | 1.99 |
| 5450 | 45.1 | -3.46 | 2.54 |
| 5500 | 39.97 | -3.98 | 1.27 |
| 5550 | 37.31 | -4.28 | 1.22 |
| 5600 | 33.48 | -4.75 | 1.07 |
| 5650 | 28.06 | -5.52 | 0.34 |
| 5700 | 22.12 | -6.55 | -0.46 |
| 5750 | 21.14 | -6.75 | -0.85 |
| 5800 | 25.79 | -5.89 | 0.1 |
| 5850 | 26.34 | -5.79 | -0.71 |
| 5900 | 16.13 | -7.92 | -3.13 |
| 5950 | 16.35 | -7.87 | -2.96 |
| 6000 | 20.45 | -6.89 | -2.06 |
| 6050 | 33.56 | -4.74 | 0.37 |
| 6100 | 32.03 | -4.94 | 0.65 |
| 6150 | 30.78 | -5.12 | 0.16 |
| 6200 | 34.13 | -4.67 | 1.5 |
| 6250 | 40.03 | -3.98 | 3.1 |
| 6300 | 40.9 | -3.88 | 3.51 |
| 6350 | 39.83 | -4 | 3.02 |
| 6400 | 44.77 | -3.49 | 2.11 |
| 6450 | 52.81 | -2.77 | 3.22 |
| 6500 | 58.95 | -2.3 | 3.7 |

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Appendix : Measured Gain Performances Table Antenna6 /Cable 6

| Passive Test For 400-8000 | | | |
|---------------------------|-------------|--------------|---------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 6550 | 50.25 | -2.99 | 2.74 |
| 6600 | 45.65 | -3.41 | 1.8 |
| 6650 | 48.78 | -3.12 | 2.2 |
| 6700 | 52.06 | -2.84 | 2.54 |
| 6750 | 44.65 | -3.5 | 1.13 |
| 6800 | 38.76 | -4.12 | 0.83 |
| 6850 | 36.41 | -4.39 | 0.64 |
| 6900 | 30.35 | -5.18 | -0.49 |
| 6950 | 22.05 | -6.57 | -1.55 |
| 7000 | 20.45 | -6.89 | -1.78 |
| 7050 | 22.98 | -6.39 | -0.68 |
| 7100 | 21.93 | -6.59 | -1.16 |
| 7150 | 16.67 | -7.78 | -2.48 |
| 7200 | 12.81 | -8.93 | -1.97 |
| 7250 | 10.69 | -9.71 | -1.29 |
| 7300 | 10.94 | -9.61 | -0.8 |
| 7350 | 11.76 | -9.3 | -0.43 |
| 7400 | 13.52 | -8.69 | -0.09 |
| 7450 | 16.21 | -7.9 | -0.14 |
| 7500 | 16.67 | -7.78 | -1.09 |
| 7550 | 16.71 | -7.77 | -1.28 |
| 7600 | 17.16 | -7.65 | -0.98 |
| 7650 | 20.78 | -6.82 | 0.05 |
| 7700 | 29.49 | -5.3 | 0.93 |
| 7750 | 37.71 | -4.24 | 0.53 |
| 7800 | 38.07 | -4.19 | 0.79 |
| 7850 | 39.66 | -4.02 | 1.24 |
| 7900 | 42.83 | -3.68 | 1.23 |
| 7950 | 47.09 | -3.27 | 1.33 |
| 8000 | 42.32 | -3.73 | 0.38 |

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Appendix : Measured Gain Performances Table

Antenna7 /Cable 7

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 700 | 4.4 | -13.56 | -8 |
| 750 | 10.34 | -9.86 | -5.21 |
| 800 | 18.45 | -7.34 | -3.33 |
| 850 | 25.58 | -5.92 | -2.11 |
| 900 | 31.37 | -5.03 | -0.9 |
| 950 | 37.73 | -4.23 | 0.01 |
| 1000 | 45.35 | -3.43 | 1.48 |
| 1050 | 31.33 | -5.04 | -0.68 |
| 1100 | 27.55 | -5.6 | -0.04 |
| 1150 | 35.06 | -4.55 | 0.4 |
| 1200 | 42.59 | -3.71 | -0.38 |
| 1250 | 41.66 | -3.8 | 0.78 |
| 1300 | 48.14 | -3.17 | 2.4 |
| 1350 | 67.53 | -1.71 | 3.2 |
| 1400 | 61.37 | -2.12 | 2.11 |
| 1450 | 51.44 | -2.89 | 3.02 |
| 1500 | 34.33 | -4.64 | 0.08 |
| 1500 | 34.33 | -4.64 | 0.08 |
| 1550 | 41.93 | -3.78 | 2 |
| 1600 | 46.11 | -3.36 | 1.82 |
| 1650 | 46.6 | -3.32 | 2.86 |
| 1700 | 39.94 | -3.99 | 3.77 |
| 1750 | 30.92 | -5.1 | 1.25 |
| 1800 | 28.29 | -5.48 | 0.64 |
| 1850 | 33.79 | -4.71 | 0.47 |
| 1900 | 38 | -4.2 | 0.42 |
| 1950 | 45.41 | -3.43 | 0.81 |

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 2000 | 42.45 | -3.72 | 1.23 |
| 2050 | 31.86 | -4.97 | 0.78 |
| 2100 | 39.54 | -4.03 | 1.47 |
| 2150 | 35.21 | -4.53 | 1.49 |
| 2200 | 33.17 | -4.79 | -0.61 |
| 2250 | 25.29 | -5.97 | -0.86 |
| 2300 | 38.87 | -4.1 | 1.77 |
| 2350 | 49.59 | -3.05 | 2.84 |
| 2400 | 50.56 | -2.96 | 2 |
| 2450 | 46.87 | -3.29 | 0.53 |
| 2500 | 47.24 | -3.26 | 0.62 |
| 2550 | 57.21 | -2.43 | 2.76 |
| 2600 | 60.27 | -2.2 | 3.81 |
| 2650 | 51.92 | -2.85 | 2.26 |
| 2700 | 47.41 | -3.24 | 3.16 |
| 2750 | 48.6 | -3.13 | 3.35 |
| 2800 | 44.42 | -3.52 | 2.92 |
| 2850 | 36.83 | -4.34 | 2.23 |
| 2900 | 40.57 | -3.92 | 1.49 |
| 2950 | 33.78 | -4.71 | 0.63 |
| 3000 | 19.99 | -6.99 | -2.26 |
| 3050 | 40.9 | -3.88 | 1.16 |
| 3100 | 52.97 | -2.76 | 2.24 |
| 3150 | 48.07 | -3.18 | 1.59 |
| 3200 | 37.85 | -4.22 | 0.48 |
| 3250 | 40.25 | -3.95 | 1 |
| 3300 | 36.71 | -4.35 | -0.23 |
| 3350 | 48.08 | -3.18 | 1.37 |
| 3400 | 50.07 | -3 | 1.22 |
| 3450 | 38.08 | -4.19 | 0.11 |
| 3500 | 45.07 | -3.46 | 1.13 |

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Appendix : Measured Gain Performances Table

Antenna7 /Cable 7

| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
|------------|----------|-----------|------------|
| 3550 | 46.94 | -3.28 | 0.77 |
| 3600 | 47.84 | -3.2 | 1.54 |
| 3650 | 48.19 | -3.17 | 1.91 |
| 3700 | 44.43 | -3.52 | 1.98 |
| 3750 | 42.12 | -3.75 | 2.57 |
| 3800 | 48.81 | -3.11 | 3.2 |
| 3850 | 48.99 | -3.1 | 3.35 |
| 3900 | 50.47 | -2.97 | 3.58 |
| 3950 | 72.49 | -1.4 | 4.88 |
| 4000 | 69.25 | -1.6 | 5.33 |
| 4050 | 70.02 | -1.55 | 5.5 |
| 4100 | 72.97 | -1.37 | 5.39 |
| 4150 | 65.11 | -1.86 | 4.09 |
| 4200 | 51.71 | -2.86 | 3.41 |
| 4250 | 58.72 | -2.31 | 4.01 |
| 4300 | 64.91 | -1.88 | 2.89 |
| 4350 | 49.34 | -3.07 | 1.23 |
| 4400 | 49.01 | -3.1 | 3.04 |
| 4450 | 49.62 | -3.04 | 3.07 |
| 4500 | 46.92 | -3.29 | 2.49 |
| 4500 | 46.92 | -3.29 | 2.49 |
| 4550 | 44.24 | -3.54 | 0.69 |
| 4600 | 37.77 | -4.23 | 0.21 |
| 4650 | 37.82 | -4.22 | 0.23 |
| 4700 | 33.71 | -4.72 | 0.78 |
| 4750 | 29.59 | -5.29 | 0.91 |
| 4800 | 31.5 | -5.02 | 0.97 |
| 4850 | 32.48 | -4.88 | 1.11 |
| 4900 | 36.34 | -4.4 | 1.22 |
| 4950 | 37 | -4.32 | 0.94 |
| 5000 | 36.56 | -4.37 | 1.38 |
| 5050 | 43.39 | -3.63 | 2.82 |

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 5100 | 46.36 | -3.34 | 3.52 |
| 5150 | 46.86 | -3.29 | 3.23 |
| 5200 | 46.5 | -3.33 | 2.95 |
| 5250 | 49.71 | -3.04 | 2.44 |
| 5300 | 51.47 | -2.88 | 2.67 |
| 5350 | 46.89 | -3.29 | 2.11 |
| 5400 | 43.69 | -3.6 | 1.72 |
| 5450 | 46.13 | -3.36 | 1.88 |
| 5500 | 43.87 | -3.58 | 2.02 |
| 5550 | 44.44 | -3.52 | 2.04 |
| 5600 | 38.87 | -4.1 | 1.47 |
| 5650 | 35.56 | -4.49 | 0.82 |
| 5700 | 37.57 | -4.25 | 1.64 |
| 5750 | 46 | -3.37 | 2.41 |
| 5800 | 44.4 | -3.53 | 1.96 |
| 5850 | 36.7 | -4.35 | 1.01 |
| 5900 | 31.13 | -5.07 | 0.44 |
| 5950 | 41.25 | -3.85 | 1.74 |
| 6000 | 44.49 | -3.52 | 2.56 |
| 6050 | 46.12 | -3.36 | 2.88 |
| 6100 | 38.5 | -4.15 | 1.47 |
| 6150 | 38.88 | -4.1 | 1.69 |
| 6200 | 37.04 | -4.31 | 1.81 |
| 6250 | 34.71 | -4.6 | 0.95 |
| 6300 | 41.62 | -3.81 | 0.89 |
| 6350 | 56.63 | -2.47 | 2.1 |
| 6400 | 54.62 | -2.63 | 1.47 |
| 6450 | 44.17 | -3.55 | 1.19 |
| 6500 | 45.7 | -3.4 | 1.02 |
| 6550 | 51.18 | -2.91 | 1.8 |
| 6600 | 50.78 | -2.94 | 1.98 |
| 6650 | 42.92 | -3.67 | 0.52 |
| 6700 | 38.8 | -4.11 | 0.03 |

Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

Appendix : Measured Gain Performances Table Antenna7 /Cable 7

| Passive Test For 400-8000 | | | |
|---------------------------|-------------|--------------|---------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 6750 | 33.99 | -4.69 | -0.01 |
| 6800 | 26.62 | -5.75 | -0.77 |
| 6850 | 26.66 | -5.74 | -1.39 |
| 6900 | 30.89 | -5.1 | -0.65 |
| 6950 | 24.29 | -6.15 | -2.35 |
| 7000 | 15.96 | -7.97 | -3.44 |
| 7050 | 14.51 | -8.38 | -3.23 |
| 7100 | 18.37 | -7.36 | -2.85 |
| 7150 | 22.62 | -6.46 | -1.73 |
| 7200 | 17.76 | -7.51 | -2.8 |
| 7250 | 14.61 | -8.35 | -3.74 |
| 7300 | 16.25 | -7.89 | -3.36 |
| 7350 | 17.1 | -7.67 | -2.49 |
| 7400 | 17.07 | -7.68 | -2.53 |
| 7450 | 19.18 | -7.17 | -2.05 |
| 7500 | 25.27 | -5.97 | -0.13 |
| 7550 | 29.59 | -5.29 | 0.51 |
| 7600 | 21.26 | -6.72 | -0.66 |
| 7650 | 16.63 | -7.79 | -2.81 |
| 7700 | 20.38 | -6.91 | -1.74 |
| 7750 | 30.11 | -5.21 | 0.61 |
| 7800 | 31.63 | -5 | 0.88 |
| 7850 | 28.71 | -5.42 | -1.1 |
| 7900 | 29.23 | -5.34 | -1.52 |
| 7950 | 33.05 | -4.81 | -0.42 |
| 8000 | 30.48 | -5.16 | -0.41 |

Maswell Cellular 5G/4G 8X8 MIMO Antenna

Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

Appendix : Measured Gain Performances Table

Antenna8 /Cable 8

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 700 | 9.19 | -10.37 | -5.64 |
| 750 | 15.53 | -8.09 | -3.91 |
| 800 | 31.34 | -5.04 | -2.27 |
| 850 | 30.64 | -5.14 | -0.92 |
| 900 | 39.71 | -4.01 | -0.51 |
| 950 | 42.31 | -3.74 | 0.84 |
| 1000 | 43.18 | -3.65 | 1.25 |
| 1050 | 35.56 | -4.49 | 0.03 |
| 1100 | 29.74 | -5.27 | -1.34 |
| 1150 | 34.73 | -4.59 | -0.86 |
| 1200 | 32.92 | -4.83 | 0.39 |
| 1250 | 36.34 | -4.4 | 0.63 |
| 1300 | 43.74 | -3.59 | 1.49 |
| 1350 | 47 | -3.28 | 1.55 |
| 1400 | 41.89 | -3.78 | 1.53 |
| 1450 | 36.08 | -4.43 | 0.3 |
| 1500 | 28.44 | -5.46 | 0.73 |
| 1550 | 37.39 | -4.27 | 1.79 |
| 1600 | 43.33 | -3.63 | 0.43 |
| 1650 | 58.22 | -2.35 | 2.28 |
| 1700 | 60.19 | -2.2 | 2.28 |
| 1750 | 40.06 | -3.97 | 0.75 |
| 1800 | 43.35 | -3.63 | 2.17 |
| 1850 | 36.25 | -4.41 | 2.2 |
| 1900 | 36.57 | -4.37 | 1.9 |
| 1950 | 37.06 | -4.31 | 1.49 |
| 2000 | 34.49 | -4.62 | 2.35 |
| 2050 | 42.32 | -3.73 | 3.13 |
| 2100 | 63.48 | -1.97 | 4.42 |

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 2150 | 63.53 | -1.97 | 4.42 |
| 2200 | 60.26 | -2.2 | 3.46 |
| 2250 | 59.26 | -2.27 | 3.53 |
| 2300 | 62.83 | -2.02 | 3.36 |
| 2350 | 57.69 | -2.39 | 3.11 |
| 2400 | 43.76 | -3.59 | 1.45 |
| 2450 | 39.68 | -4.01 | 1.25 |
| 2500 | 51.39 | -2.89 | 1.93 |
| 2550 | 57.09 | -2.43 | 2.46 |
| 2600 | 55.39 | -2.57 | 2.34 |
| 2650 | 48.14 | -3.17 | 1.41 |
| 2700 | 41.12 | -3.86 | 0.9 |
| 2750 | 45.04 | -3.46 | 1.06 |
| 2800 | 41.56 | -3.81 | 1.85 |
| 2850 | 33.77 | -4.71 | 1.05 |
| 2900 | 37.82 | -4.22 | 1.23 |
| 2950 | 37.73 | -4.23 | 1.47 |
| 3000 | 24.01 | -6.2 | 0.34 |
| 3050 | 40.01 | -3.98 | 1.64 |
| 3100 | 53.1 | -2.75 | 2.88 |
| 3150 | 45.86 | -3.39 | 2.08 |
| 3200 | 36.96 | -4.32 | 1.08 |
| 3250 | 39.52 | -4.03 | 2.32 |
| 3300 | 39.15 | -4.07 | 2.03 |
| 3350 | 49.08 | -3.09 | 2.65 |
| 3400 | 42.33 | -3.73 | 1.68 |
| 3450 | 33.48 | -4.75 | 0.14 |
| 3500 | 43.46 | -3.62 | 1.54 |
| 3550 | 45.93 | -3.38 | 2.94 |
| 3600 | 48.21 | -3.17 | 3.39 |
| 3650 | 50.45 | -2.97 | 2.5 |

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AN_Master_Cubic-8C-LP

Appendix : Measured Gain Performances Table Antenna8 /Cable 8

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 3700 | 41.95 | -3.77 | 3.29 |
| 3750 | 40.75 | -3.9 | 3.46 |
| 3800 | 44.07 | -3.56 | 3.25 |
| 3850 | 42.16 | -3.75 | 3.03 |
| 3900 | 46.64 | -3.31 | 2.85 |
| 3950 | 68.34 | -1.65 | 4.55 |
| 4000 | 67.02 | -1.74 | 4.78 |
| 4050 | 72.16 | -1.42 | 4.49 |
| 4100 | 78.93 | -1.03 | 4.94 |
| 4150 | 75.72 | -1.21 | 4.73 |
| 4200 | 58.53 | -2.33 | 3.51 |
| 4250 | 64.44 | -1.91 | 3.2 |
| 4300 | 67.34 | -1.72 | 3.41 |
| 4350 | 48.78 | -3.12 | 2.34 |
| 4400 | 47.6 | -3.22 | 1.7 |
| 4450 | 48.43 | -3.15 | 1.87 |
| 4500 | 46.54 | -3.32 | 1.64 |
| 4550 | 40 | -3.98 | 1.94 |
| 4600 | 34.75 | -4.59 | 1.56 |
| 4650 | 35.53 | -4.49 | 0.96 |
| 4700 | 32.65 | -4.86 | 1 |
| 4750 | 31.28 | -5.05 | 0.86 |
| 4800 | 30.92 | -5.1 | 0.43 |
| 4850 | 31.34 | -5.04 | 0.31 |
| 4900 | 31.41 | -5.03 | 1.01 |
| 4950 | 28.17 | -5.5 | 0.96 |
| 5000 | 29.41 | -5.31 | 1.31 |
| 5050 | 37.89 | -4.21 | 2.24 |
| 5100 | 38.92 | -4.1 | 2.44 |
| 5150 | 36.73 | -4.35 | 2.12 |

| Passive Test For 400-8000 | | | |
|---------------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 5200 | 38.91 | -4.1 | 1.62 |
| 5250 | 45.34 | -3.43 | 1.78 |
| 5300 | 44.38 | -3.53 | 1.19 |
| 5350 | 40.03 | -3.98 | 0.81 |
| 5400 | 41.11 | -3.86 | 0.85 |
| 5450 | 44.48 | -3.52 | 0.31 |
| 5500 | 42.05 | -3.76 | 1.1 |
| 5550 | 43.67 | -3.6 | 1.74 |
| 5600 | 37.79 | -4.23 | 1.02 |
| 5650 | 31.34 | -5.04 | -0.52 |
| 5700 | 31.1 | -5.07 | -0.7 |
| 5750 | 37.25 | -4.29 | 0.02 |
| 5800 | 32.89 | -4.83 | 0.94 |
| 5850 | 25.2 | -5.99 | -0.26 |
| 5900 | 24.72 | -6.07 | -0.54 |
| 5950 | 37.68 | -4.24 | 1.04 |
| 6000 | 43.78 | -3.59 | 1.76 |
| 6050 | 42.22 | -3.75 | 2.07 |
| 6100 | 35.15 | -4.54 | 0.64 |
| 6150 | 38.69 | -4.12 | 1.63 |
| 6200 | 38.88 | -4.1 | 2.44 |
| 6250 | 33.34 | -4.77 | 1.23 |
| 6300 | 36.59 | -4.37 | 1.36 |
| 6350 | 47.57 | -3.23 | 1.94 |
| 6400 | 47.4 | -3.24 | 1.57 |
| 6450 | 38.06 | -4.2 | 0.82 |
| 6500 | 39.64 | -4.02 | 1.4 |
| 6550 | 48.93 | -3.1 | 1.73 |
| 6600 | 48.85 | -3.11 | 1.7 |
| 6650 | 39.12 | -4.08 | 1.51 |

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AN_Master_Cubic-8C-LP

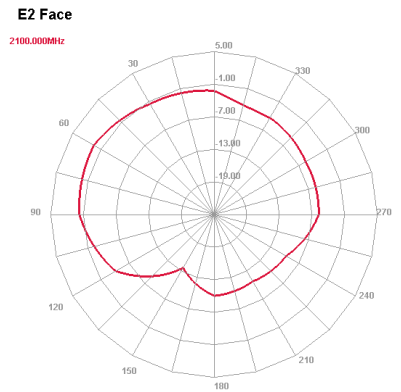
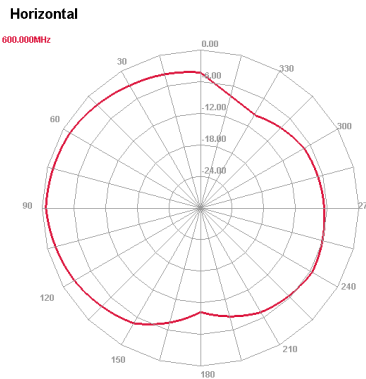
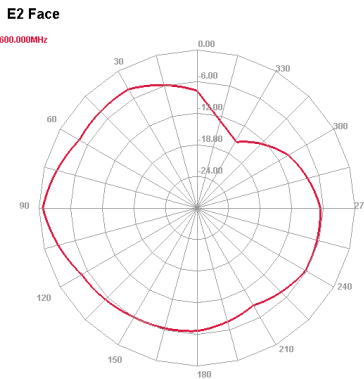
Appendix : Measured Gain Performances Table Antenna8 /Cable 8

| Passive Test For 400-8000 | | | |
|---------------------------|-------------|--------------|---------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 6700 | 36.87 | -4.33 | 1.73 |
| 6750 | 36.1 | -4.43 | 1.71 |
| 6800 | 30.45 | -5.16 | 0.91 |
| 6850 | 30.21 | -5.2 | 0.52 |
| 6900 | 31.61 | -5 | 0.94 |
| 6950 | 25.64 | -5.91 | 0.02 |
| 7000 | 19.23 | -7.16 | -0.94 |
| 7050 | 17.06 | -7.68 | -1.46 |
| 7100 | 18.61 | -7.3 | -0.63 |
| 7150 | 19.28 | -7.15 | -1.25 |
| 7200 | 14.87 | -8.28 | -3.15 |
| 7250 | 11.75 | -9.3 | -4.23 |
| 7300 | 11.57 | -9.37 | -3.59 |
| 7350 | 12.69 | -8.97 | -1.98 |
| 7400 | 14.1 | -8.51 | -2.57 |
| 7450 | 17.6 | -7.55 | -1.88 |
| 7500 | 20.17 | -6.95 | -0.88 |
| 7550 | 20.09 | -6.97 | -0.75 |
| 7600 | 18.87 | -7.24 | -0.71 |
| 7650 | 21.78 | -6.62 | -0.64 |
| 7700 | 32.47 | -4.89 | 0.6 |
| 7750 | 41.2 | -3.85 | 1.66 |
| 7800 | 41.53 | -3.82 | 1.41 |
| 7850 | 39.37 | -4.05 | 1.1 |
| 7900 | 42.12 | -3.75 | 1.96 |
| 7950 | 43.96 | -3.57 | 2.87 |
| 8000 | 39.77 | -4 | 2.58 |

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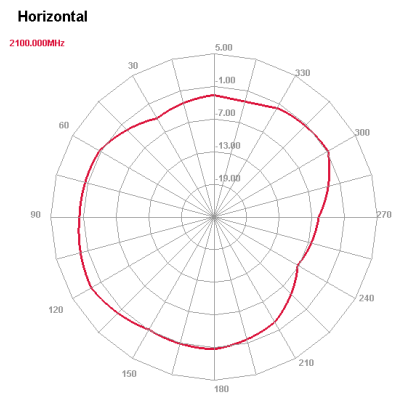
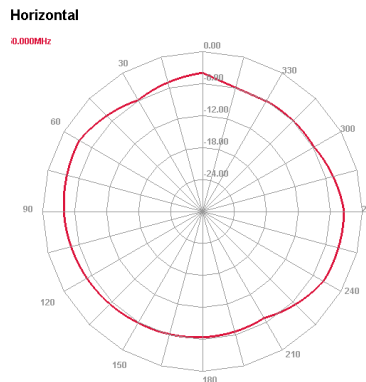
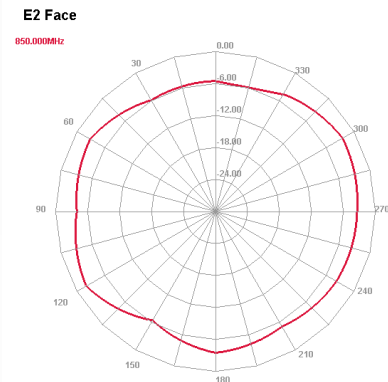
Radiation Pattern Antenna1



600 MHz E plane

600 MHz H plane

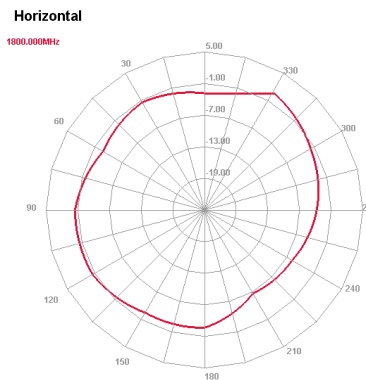
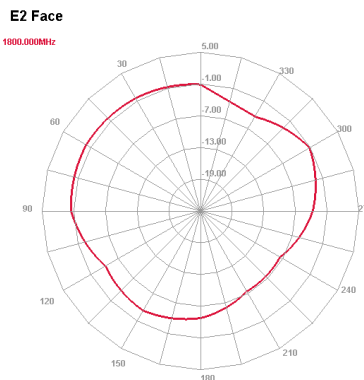
2100 MHz E plane



850 MHz E2 plane

850 MHz H plane

2100 MHz H plane



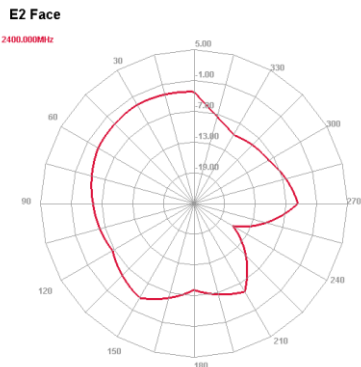
1800 MHz E plane

1800 MHz H plane

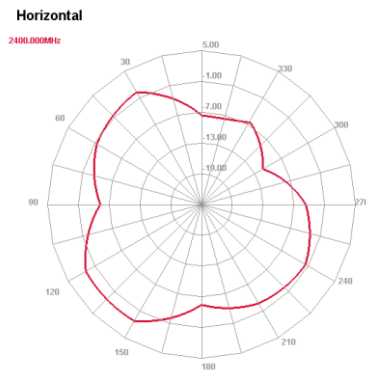
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

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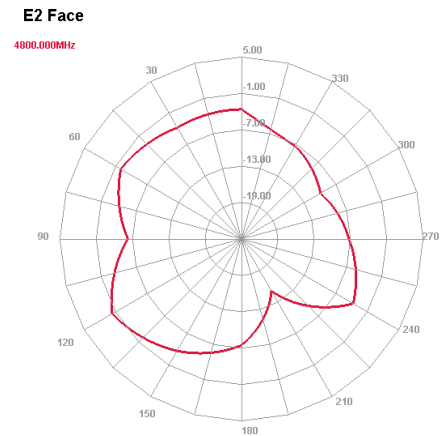
Radiation Pattern Antenna1



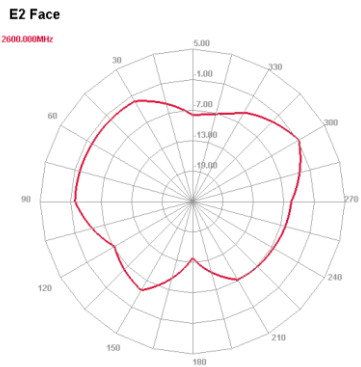
2400 MHz E plane



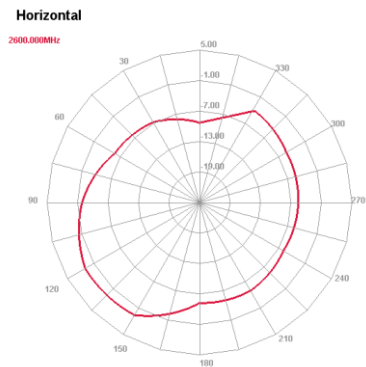
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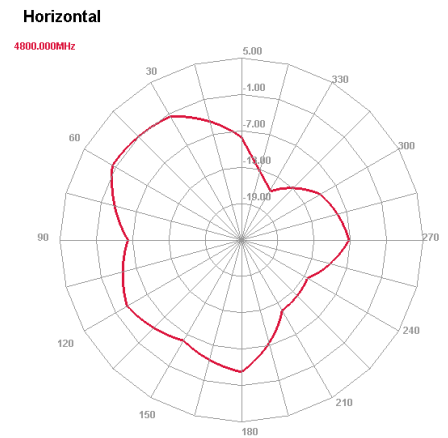
4800 MHz E plane



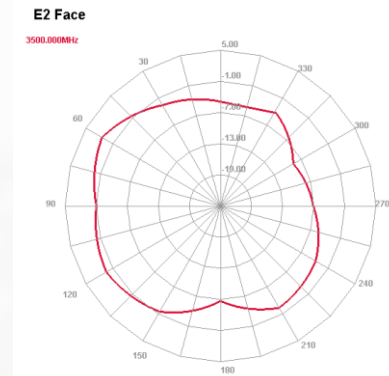
2600 MHz E plane



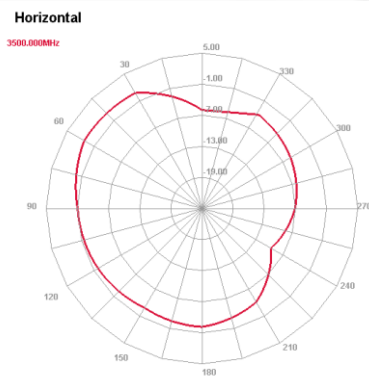
2600 MHz H plane



4800 MHz H plane



3500 MHz E plane

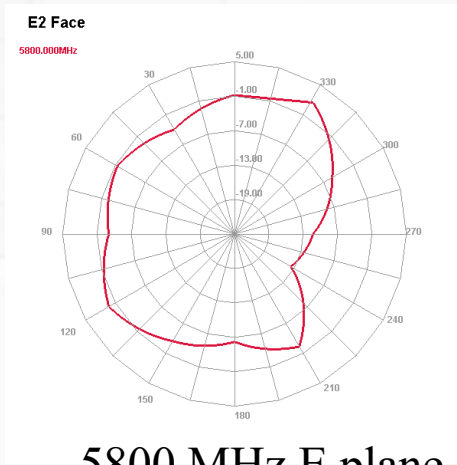


3500 MHz H plane

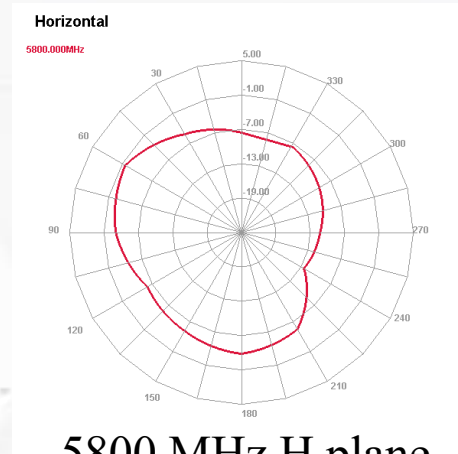
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

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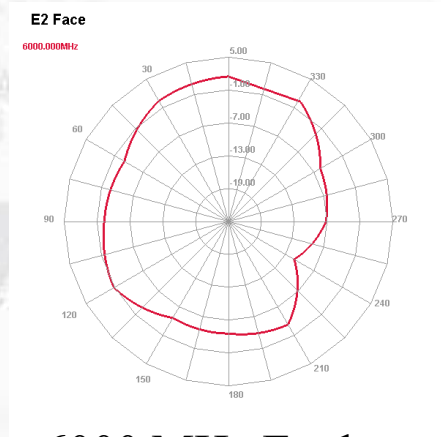
Radiation Pattern Antenna1



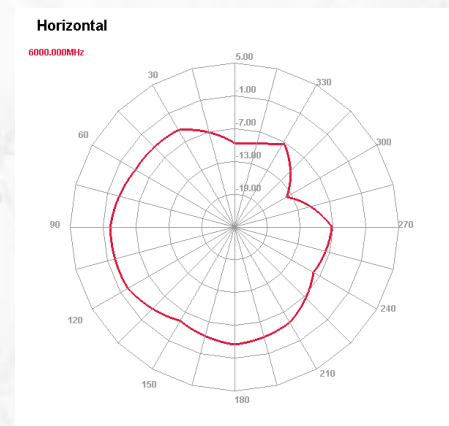
5800 MHz E plane



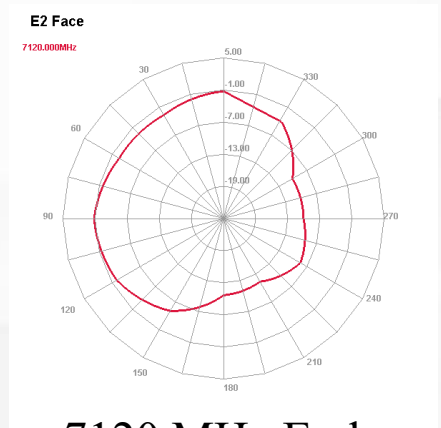
5800 MHz H plane



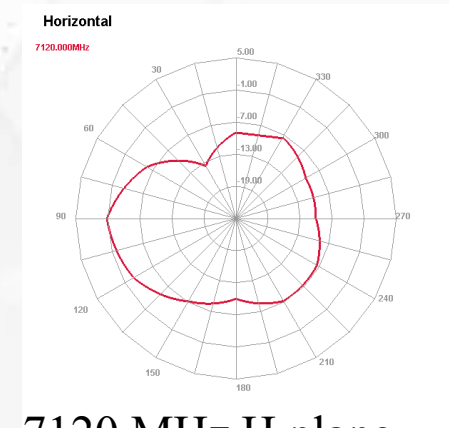
6000 MHz E plane



6000 MHz H plane



7120 MHz E plane

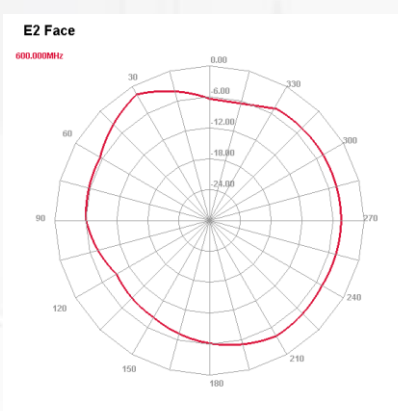


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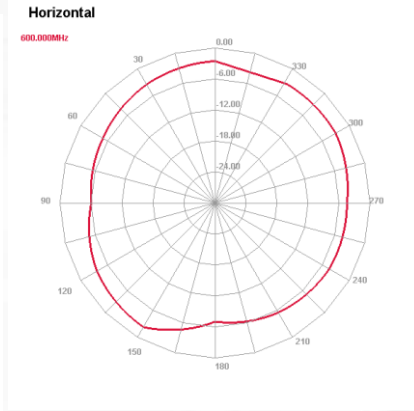
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

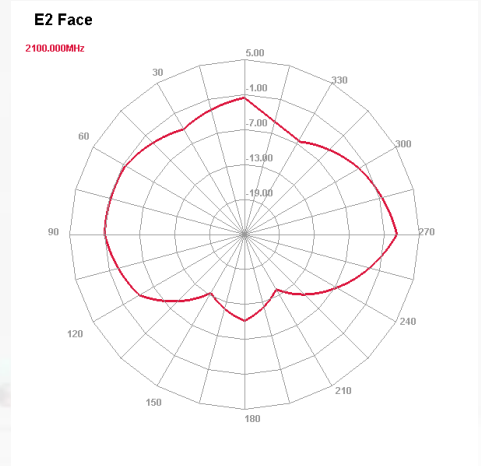
Radiation Pattern Antenna2



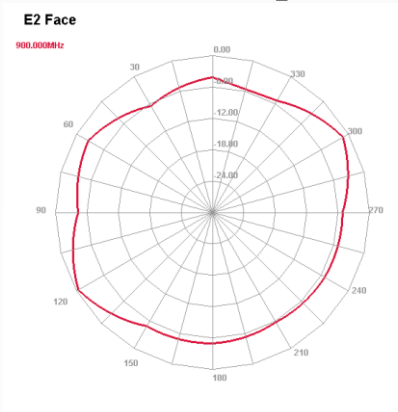
600 MHz E plane



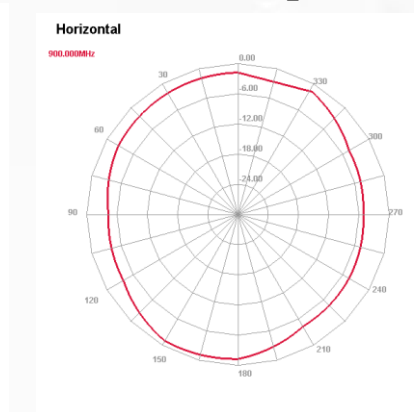
600 MHz H plane



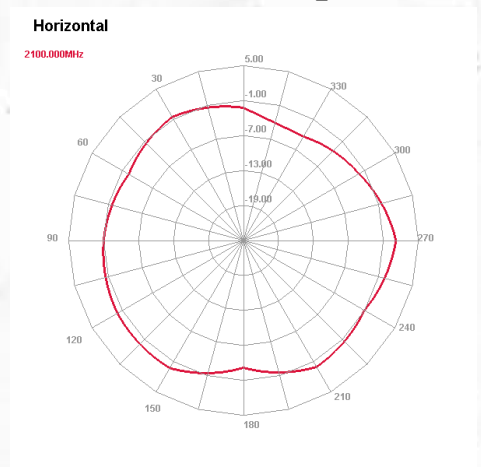
2100 MHz E plane



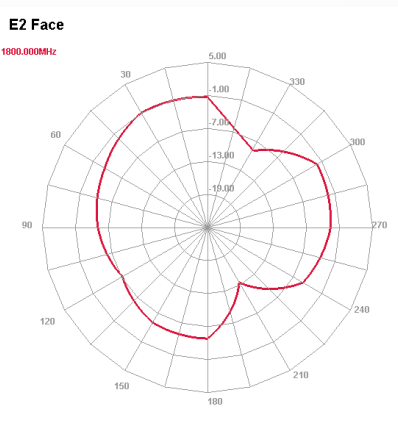
850 MHz E2 plane



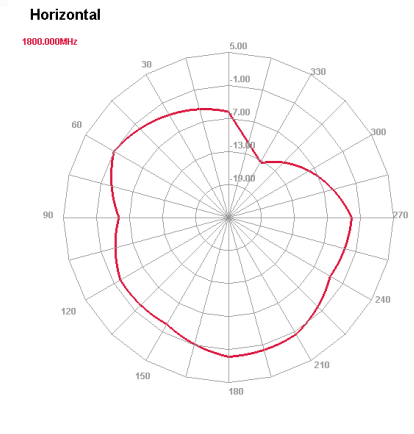
850 MHz H plane



2100 MHz H plane



1800 MHz E plane

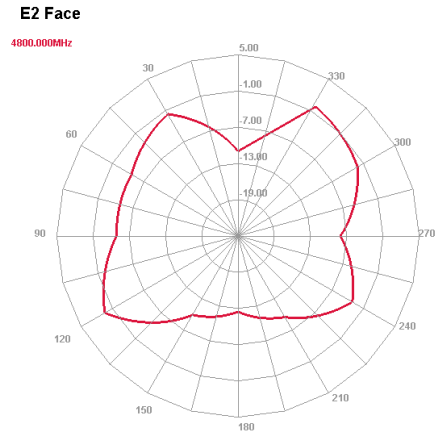
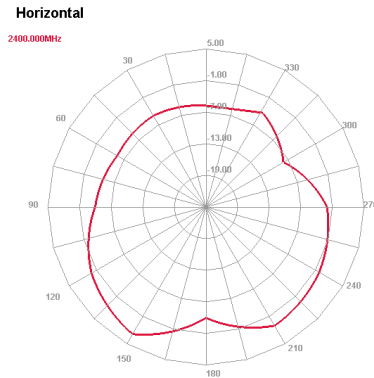
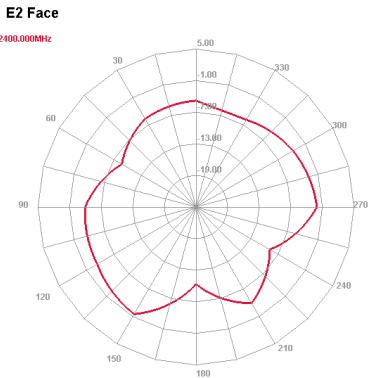


1800 MHz H plane

Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

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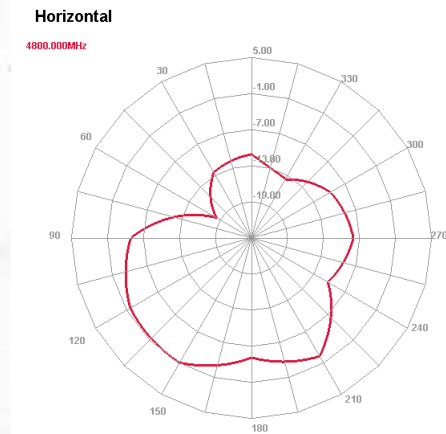
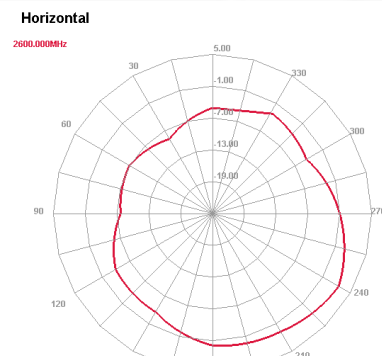
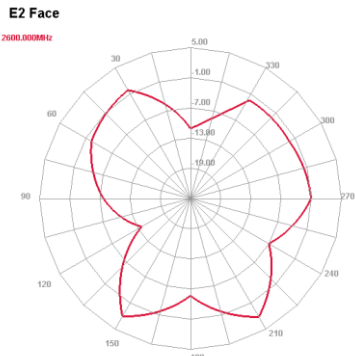
Radiation Pattern Antenna2



2400 MHz E plane

2400 MHz H plane

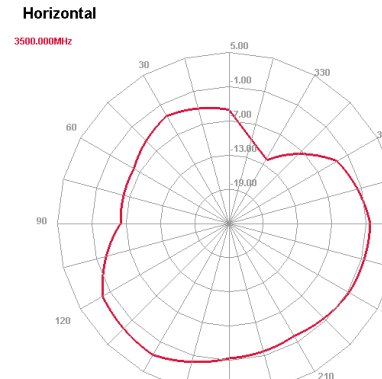
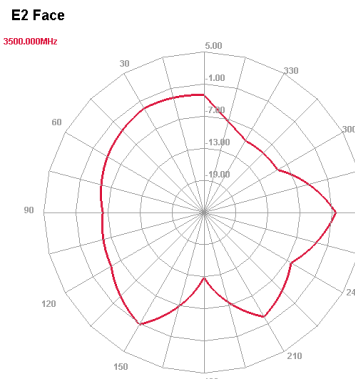
4800 MHz E plane



2600 MHz E plane

2600 MHz H plane

4800 MHz H plane



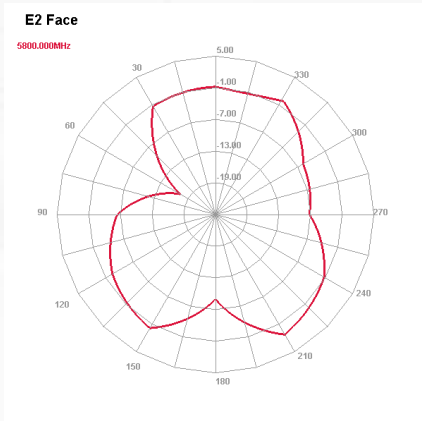
3500 MHz E plane

3500 MHz H plane

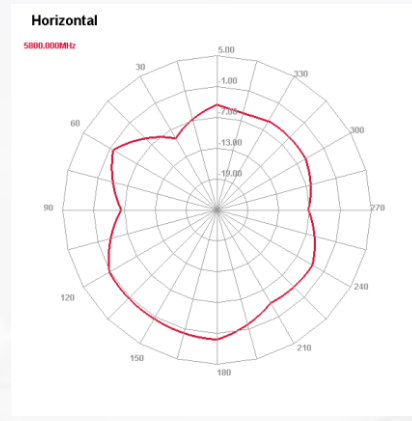
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

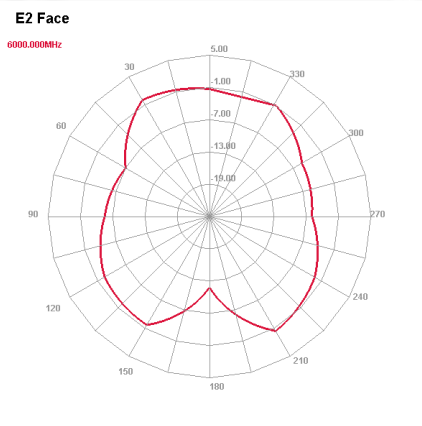
Radiation Pattern Antenna2



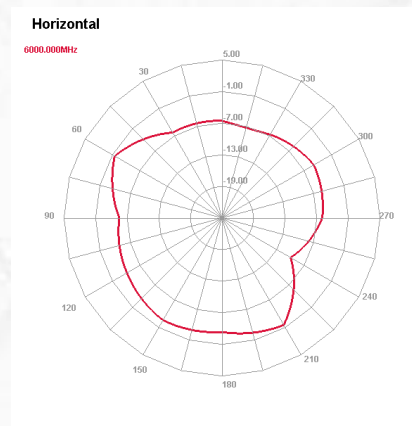
5800 MHz E plane



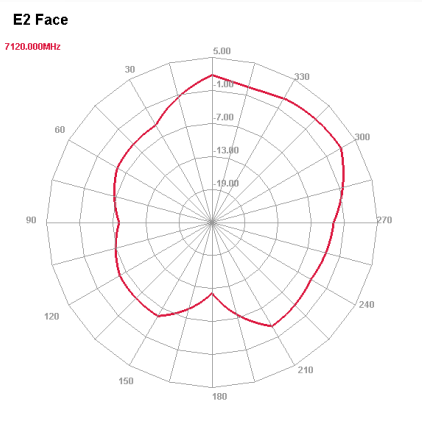
5800 MHz H plane



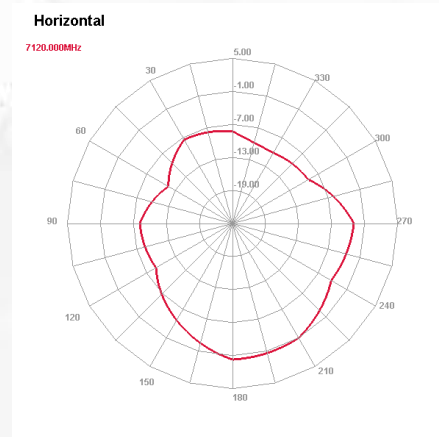
6000 MHz E plane



6000 MHz H plane



7120 MHz E plane

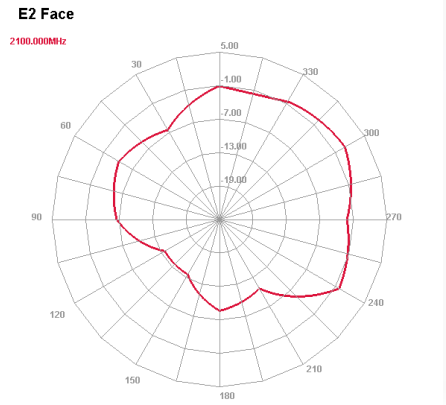
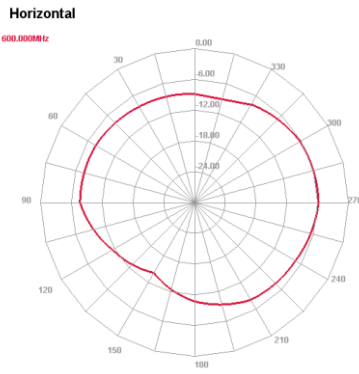
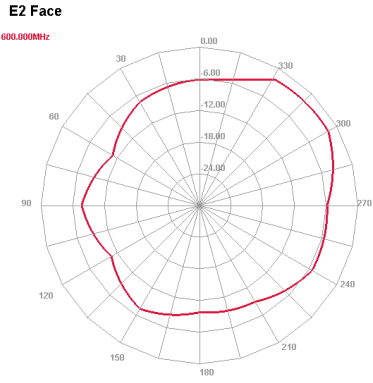


7120 MHz H plane

Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

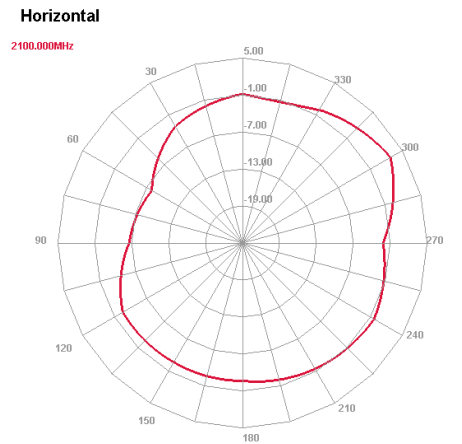
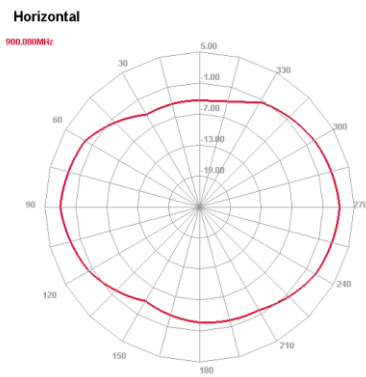
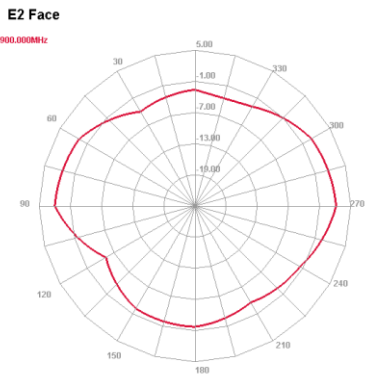
Radiation Pattern Antenna3



600 MHz E plane

600 MHz H plane

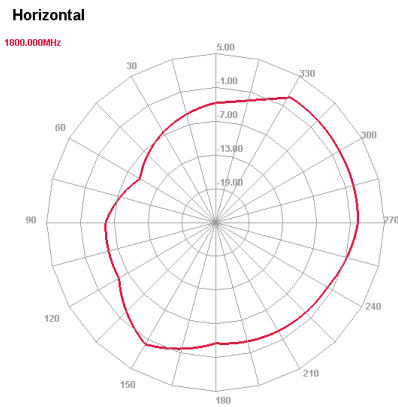
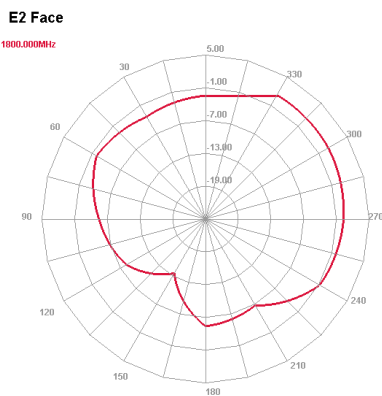
2100 MHz E plane



900 MHz E plane

900 MHz H plane

2100 MHz H plane



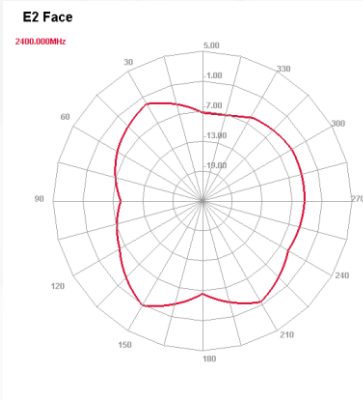
1800 MHz E plane

1800 MHz H plane

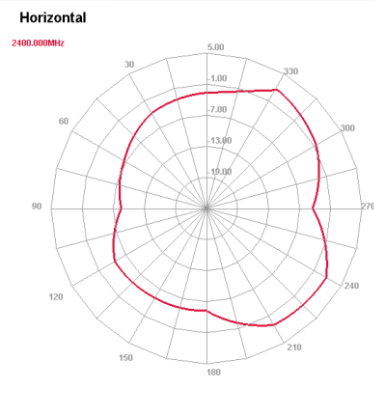
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

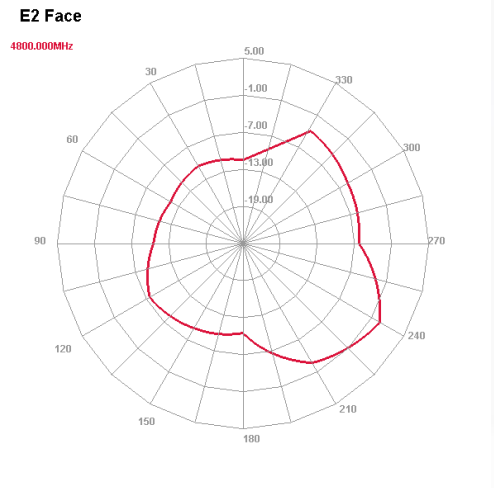
Radiation Pattern Antenna3



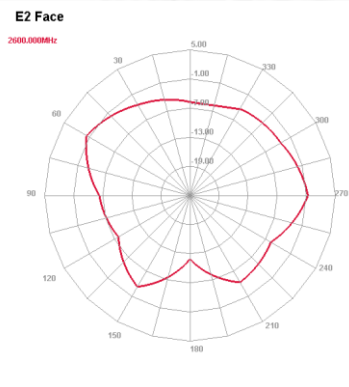
2400 MHz E plane



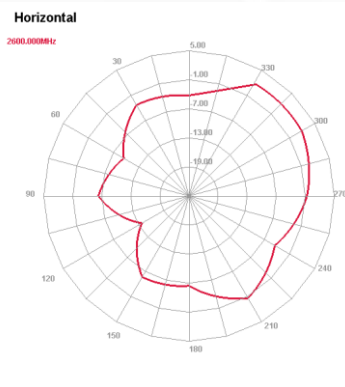
2400 MHz H plane



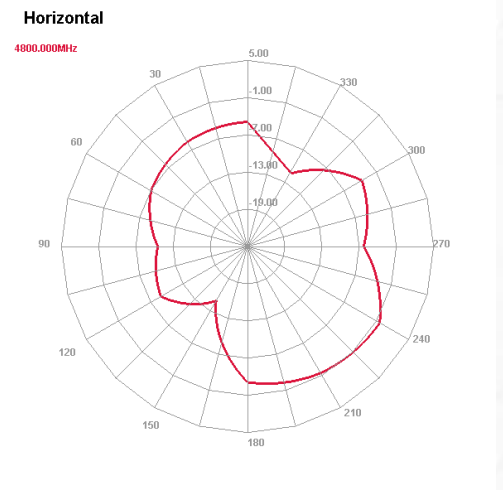
4800 MHz E plane



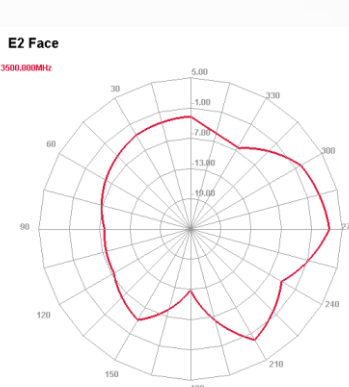
2600 MHz E plane



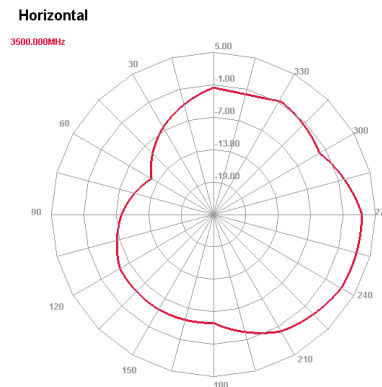
2600 MHz H plane



4800 MHz H plane



3500 MHz E plane

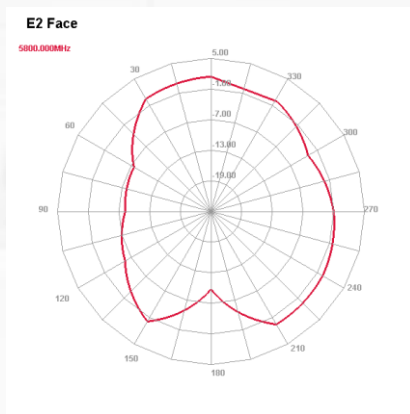


3500 MHz H plane

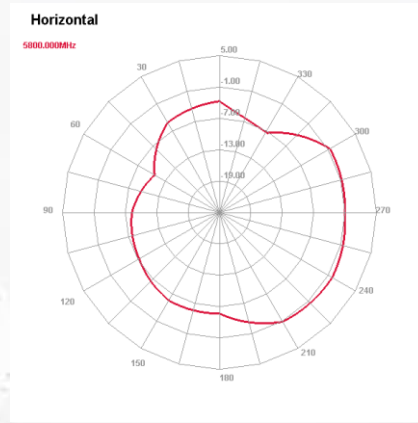
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

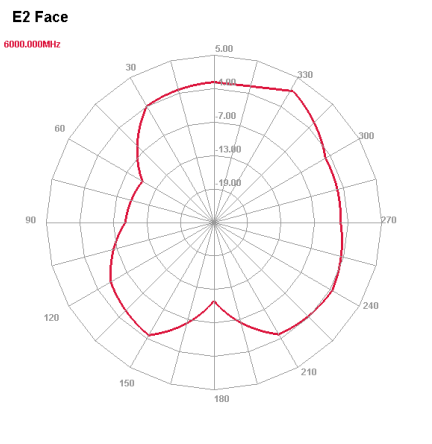
Radiation Pattern Antenna3



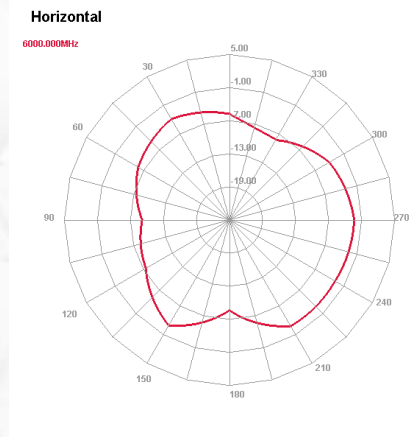
5800 MHz E plane



5800 MHz H plane



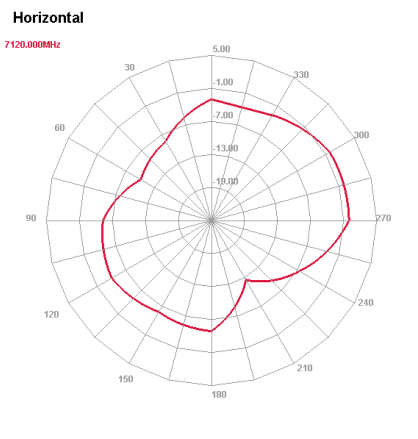
6000 MHz E plane



6000 MHz H plane



7120 MHz E plane

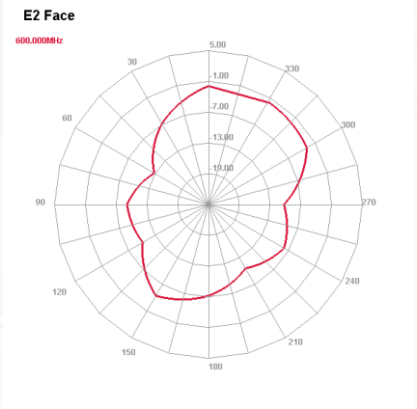


7120 MHz H plane

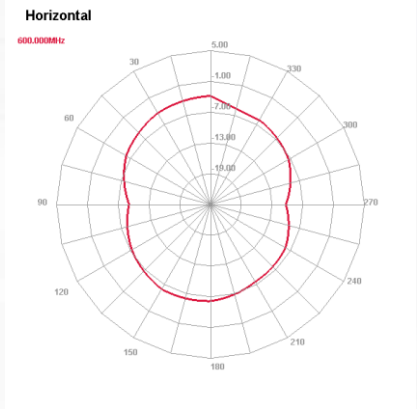
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

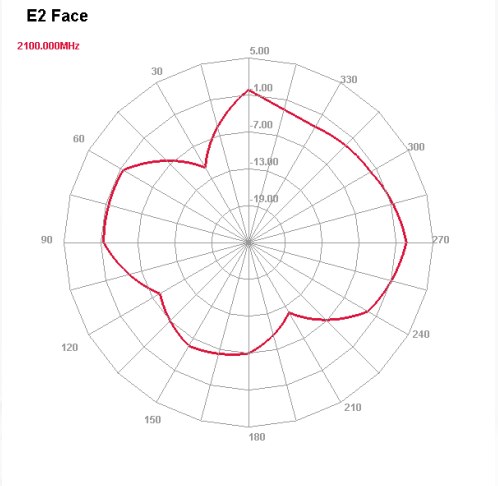
Radiation Pattern Antenna4



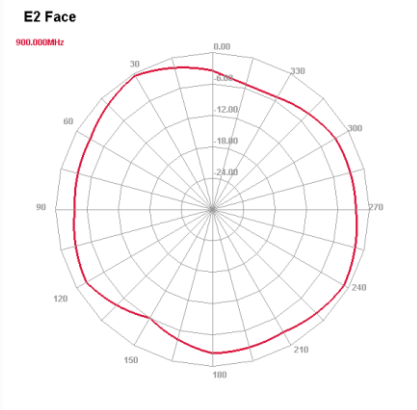
600 MHz E plane



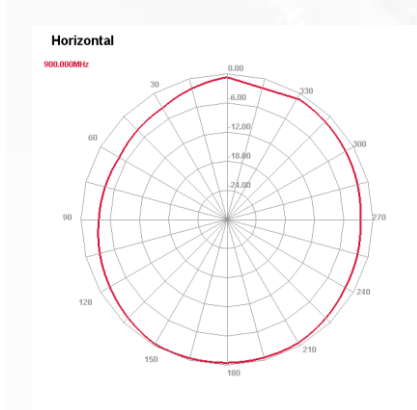
600 MHz H plane



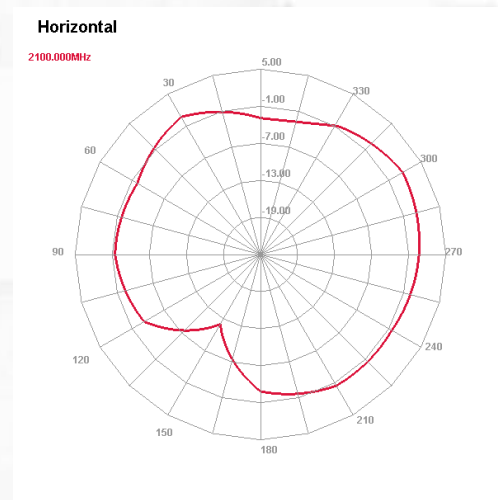
2100 MHz E plane



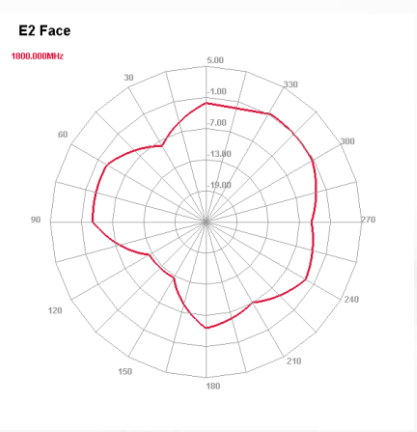
900 MHz E plane



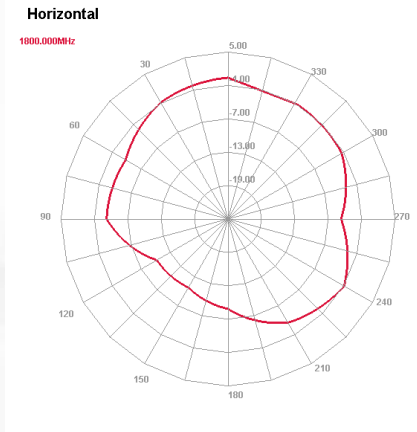
900 MHz H plane



2100 MHz H plane



1800 MHz E plane

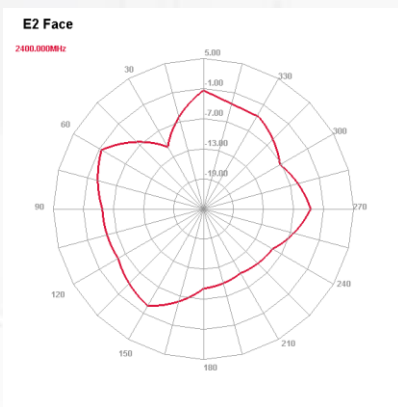


1800 MHz H plane

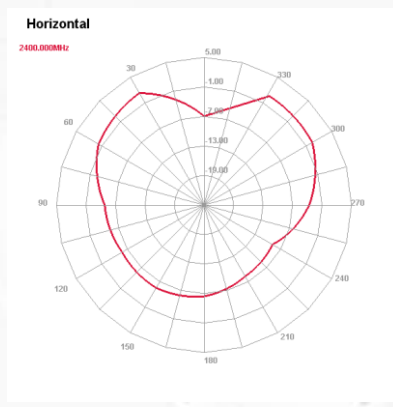
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

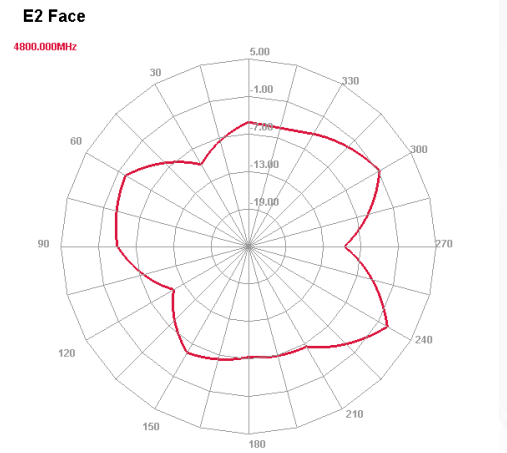
Radiation Pattern Antenna4



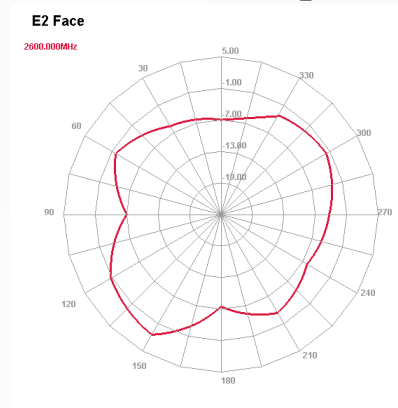
2400 MHz E plane



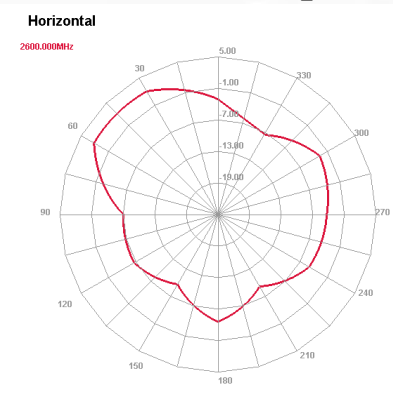
2400 MHz H plane



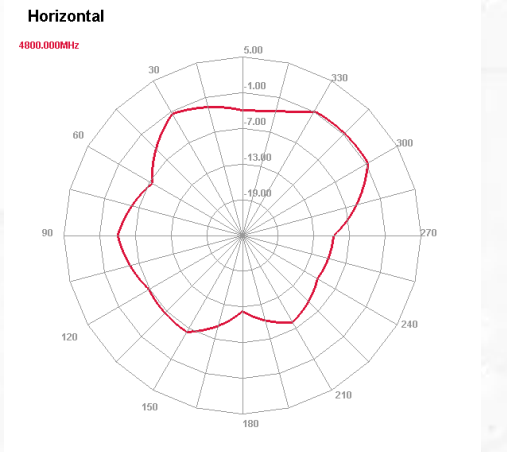
4800 MHz E plane



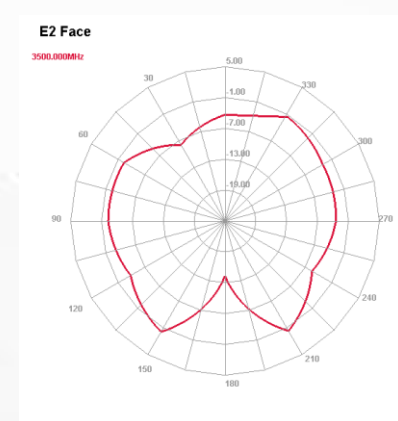
2600 MHz E plane



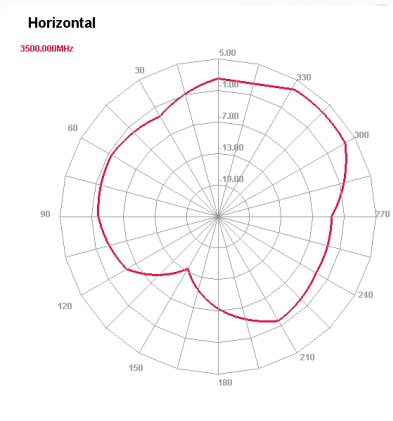
2600 MHz H plane



4800 MHz H plane



3500 MHz E plane

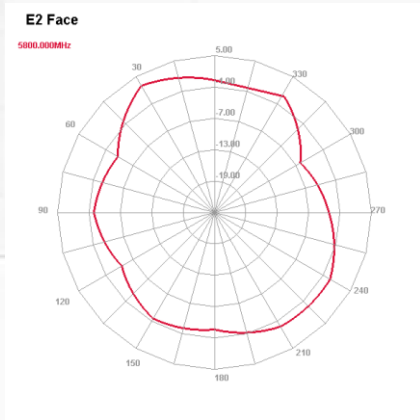


3500 MHz H plane

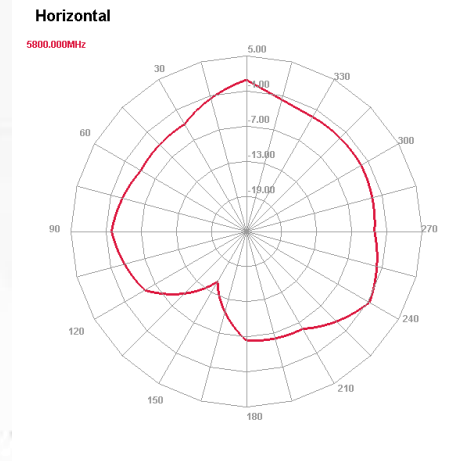
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

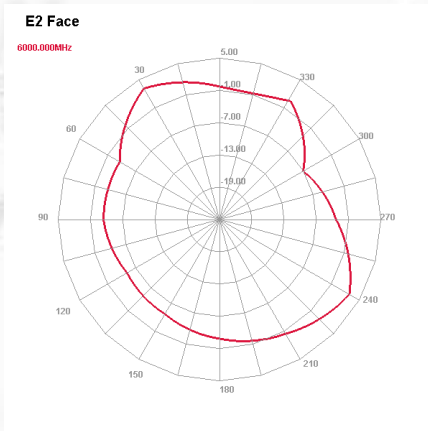
Radiation Pattern Antenna4



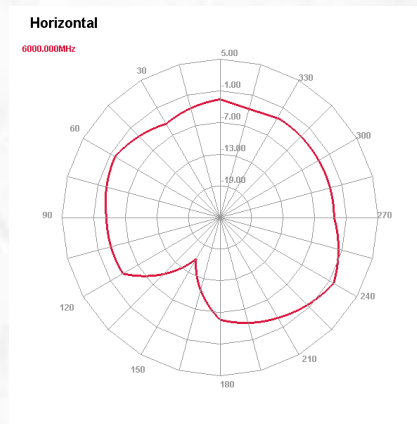
5800 MHz E plane



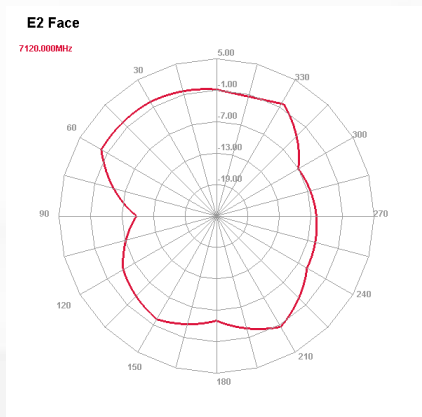
5800 MHz H plane



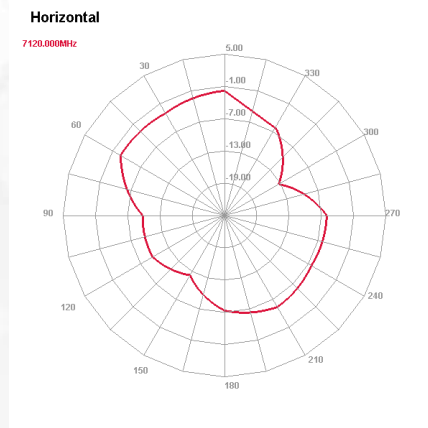
6000 MHz E plane



6000 MHz H plane



7120 MHz E plane

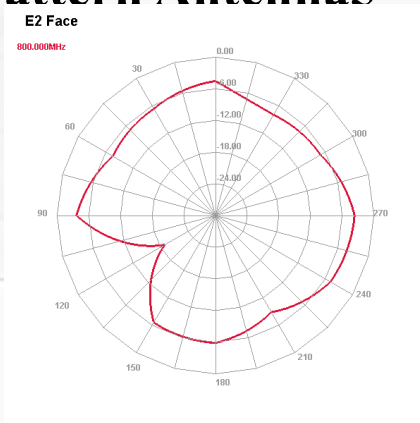


7120 MHz H plane

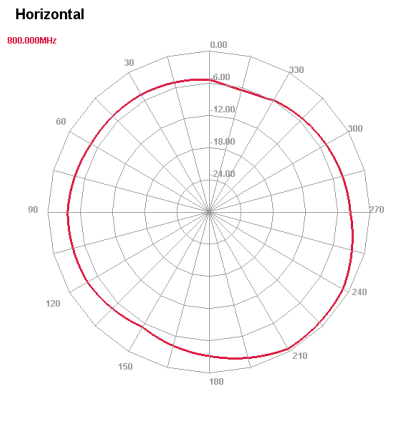
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

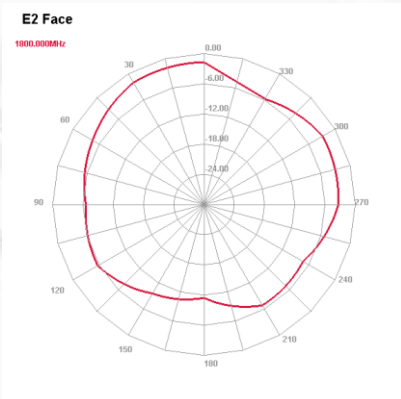
Radiation Pattern Antenna5



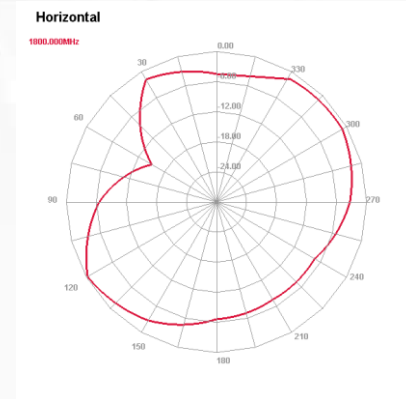
800 MHz E plane



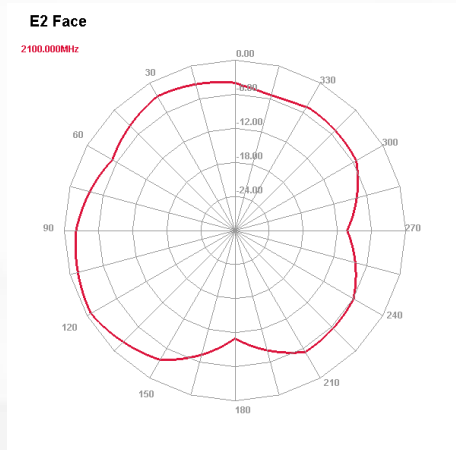
800 MHz H plane



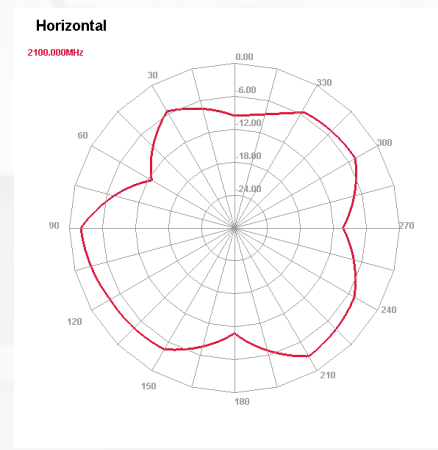
1800 MHz E plane



1800 MHz H plane



2100 MHz E plane

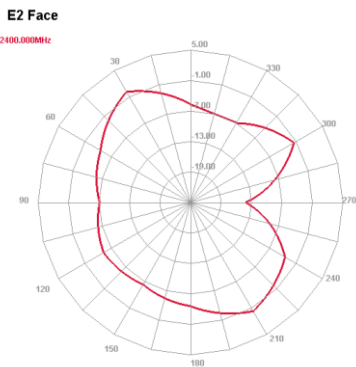


2100 MHz H plane

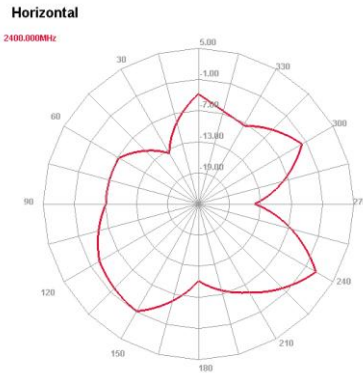
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

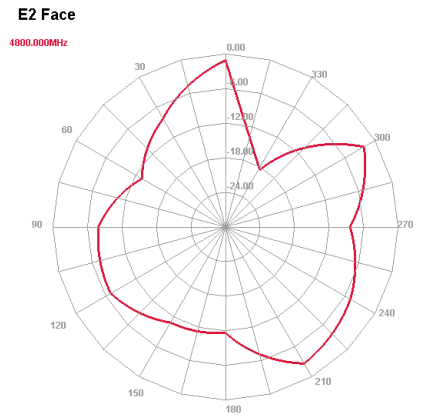
Radiation Pattern Antenna5



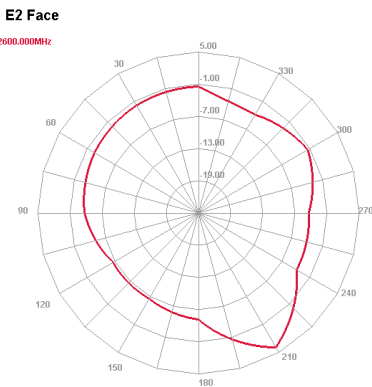
2400 MHz E plane



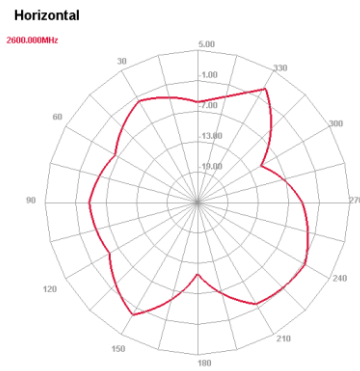
2400 MHz H plane



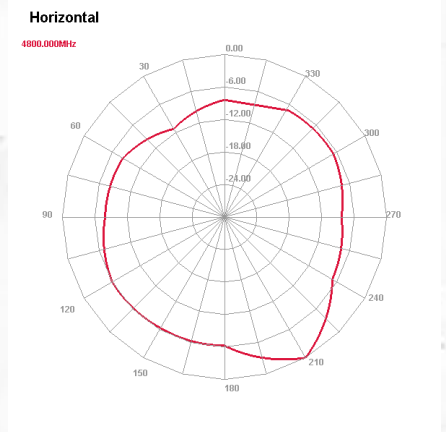
4800 MHz E plane



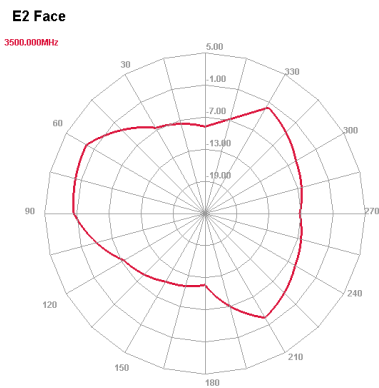
2600 MHz E plane



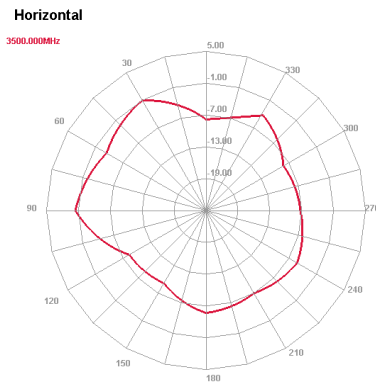
2600 MHz H plane



4800 MHz H plane



3500 MHz E plane

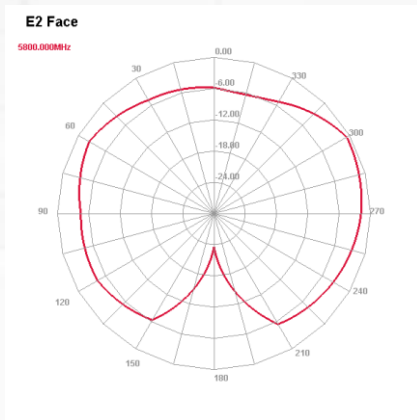


3500 MHz H plane

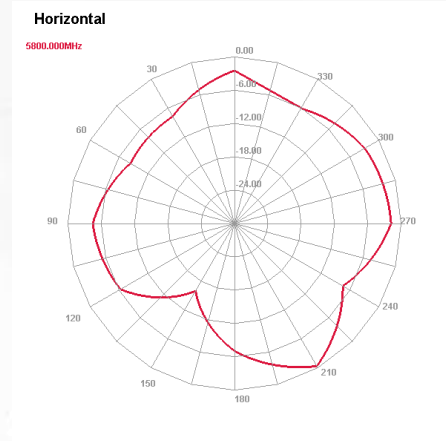
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

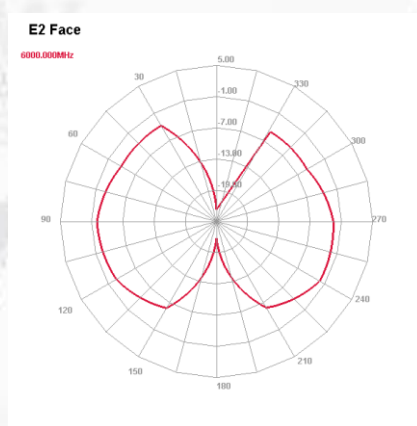
Radiation Pattern Antenna5



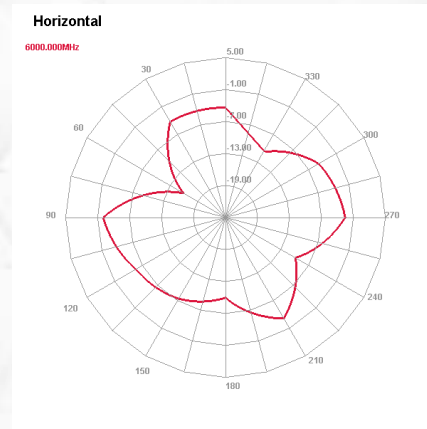
5800 MHz E plane



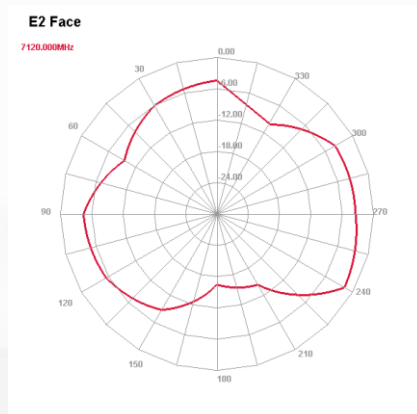
5800 MHz H plane



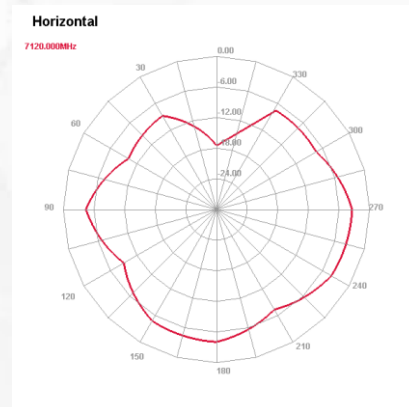
6000 MHz E plane



6000 MHz H plane



7120 MHz E plane

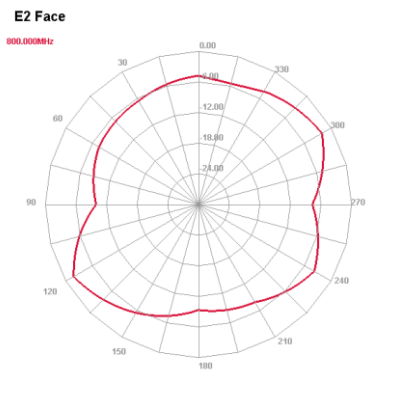


7120 MHz H plane

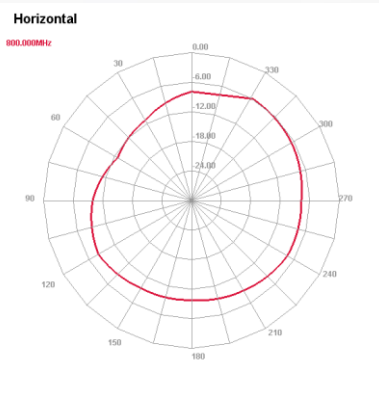
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

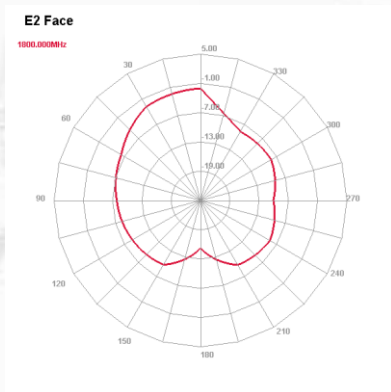
Radiation Pattern Antenna6



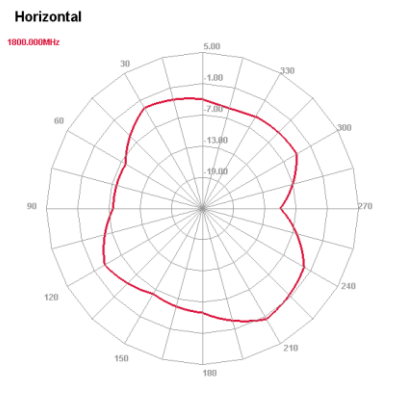
800 MHz E plane



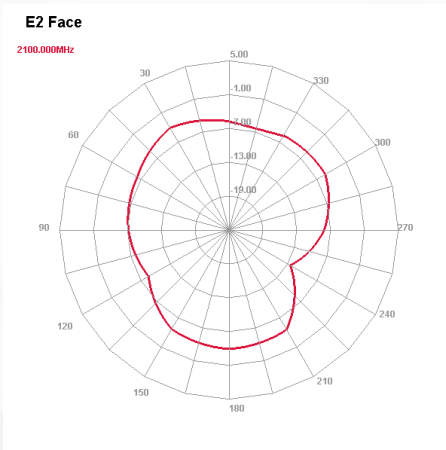
800 MHz H plane



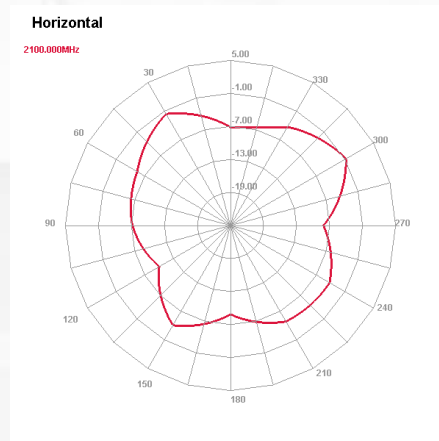
1800 MHz E plane



1800 MHz H plane



2100 MHz E plane

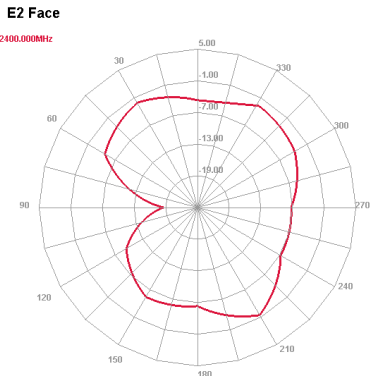


2100 MHz H plane

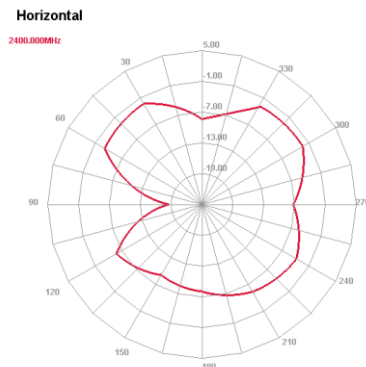
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

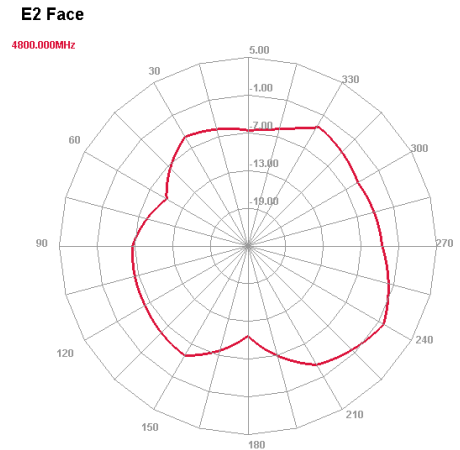
Radiation Pattern Antenna6



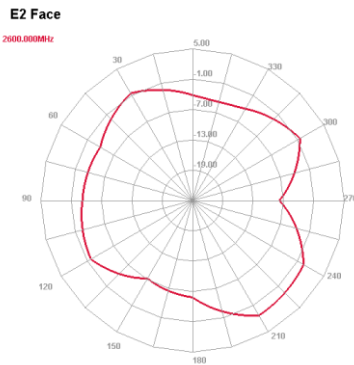
2400 MHz E plane



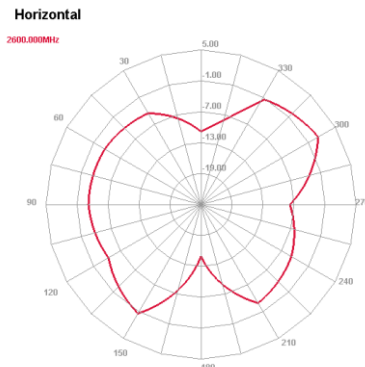
2400 MHz H plane



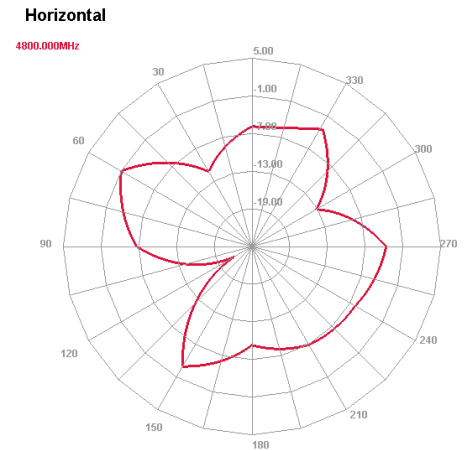
4800 MHz E plane



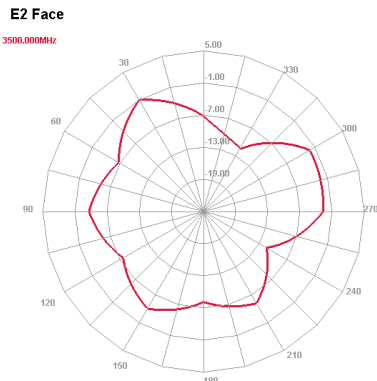
2600 MHz E plane



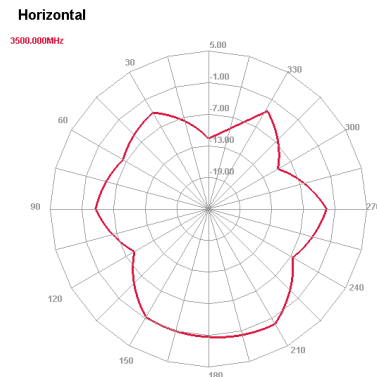
2600 MHz H plane



4800 MHz H plane



3500 MHz E plane

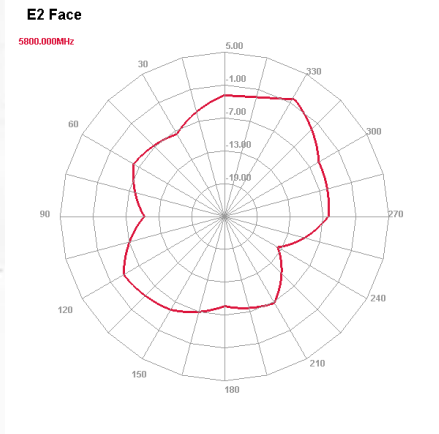


3500 MHz H plane

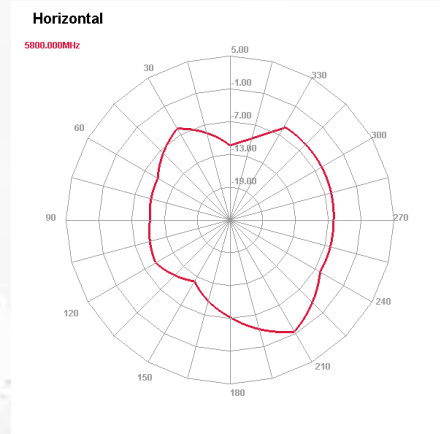
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

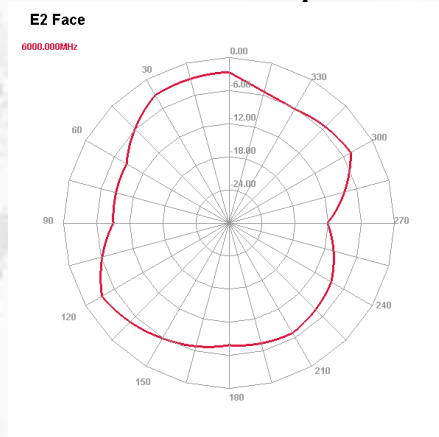
Radiation Pattern Antenna6



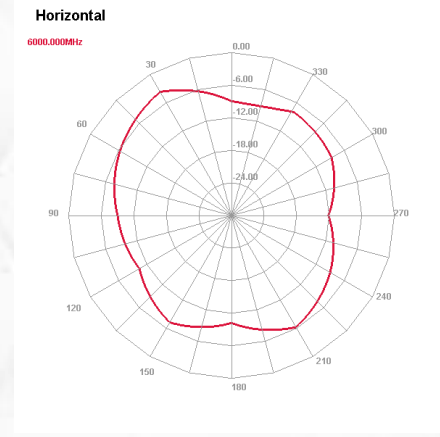
5800 MHz E plane



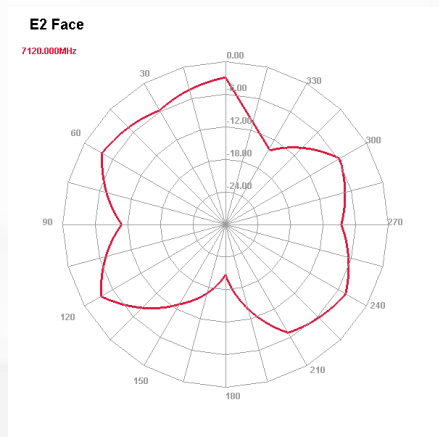
5800 MHz H plane



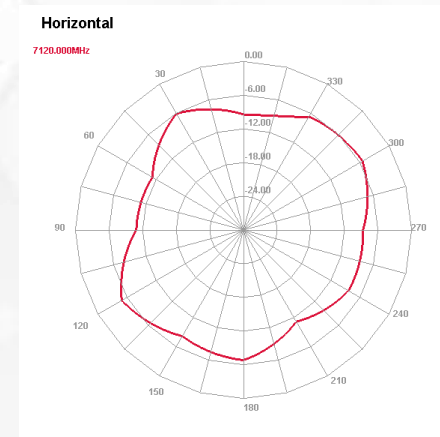
6000 MHz E plane



6000 MHz H plane



7120 MHz E plane

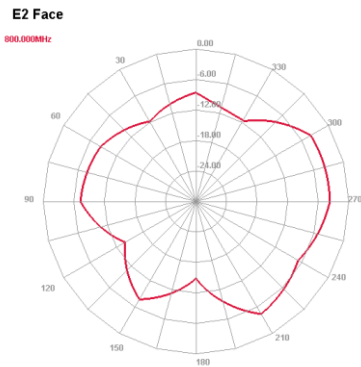


7120 MHz H plane

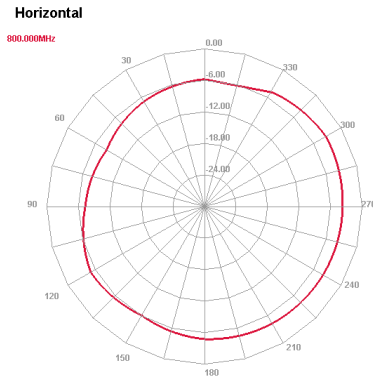
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

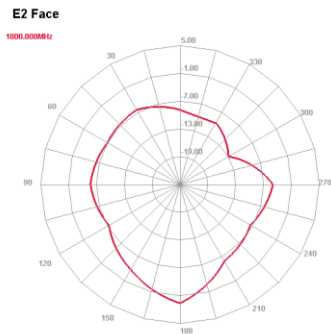
Radiation Pattern Antenna7



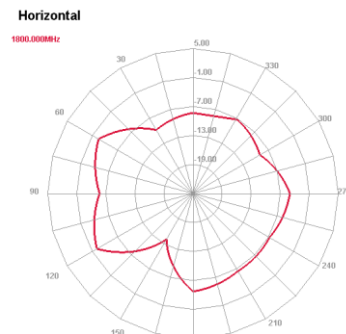
800 MHz E plane



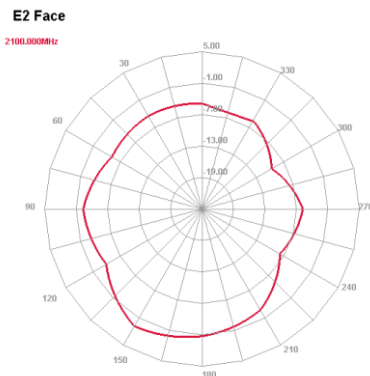
800 MHz H plane



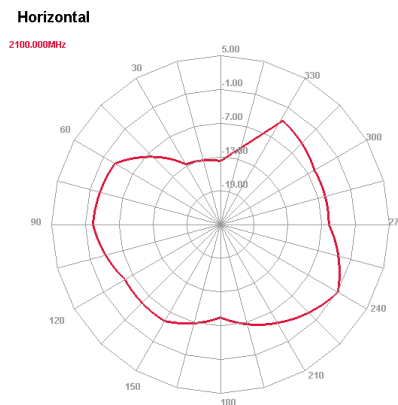
1800 MHz E plane



1800 MHz H plane



2100 MHz E plane

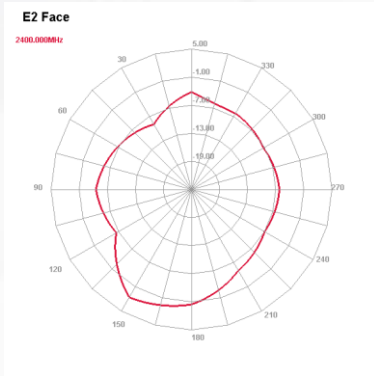


2100 MHz H plane

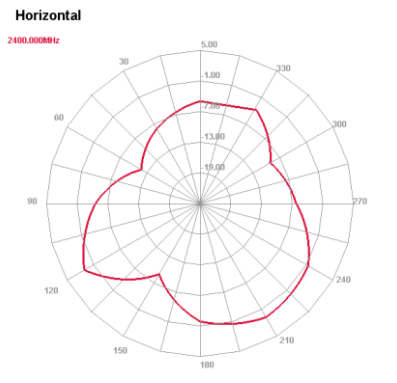
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

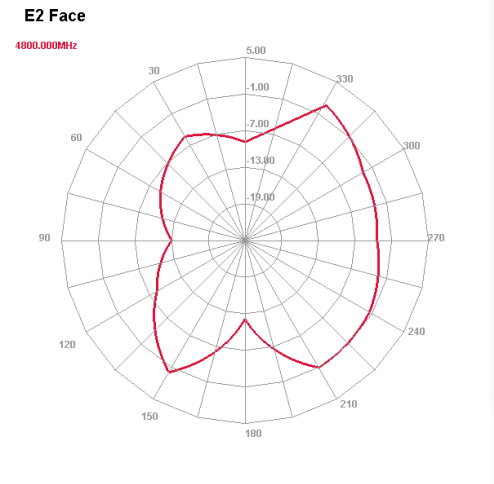
Radiation Pattern Antenna7



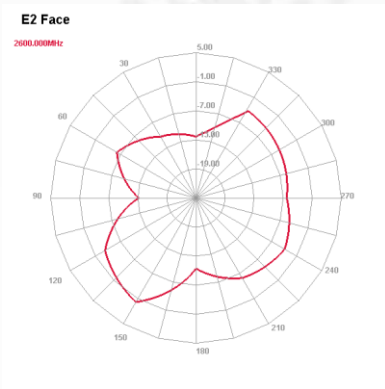
2400 MHz E plane



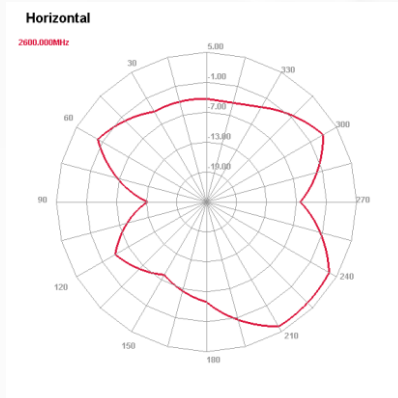
2400 MHz H plane



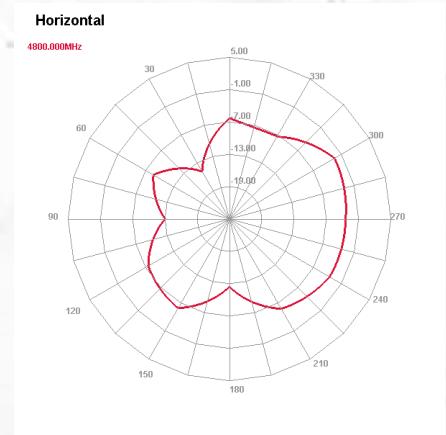
4800 MHz E plane



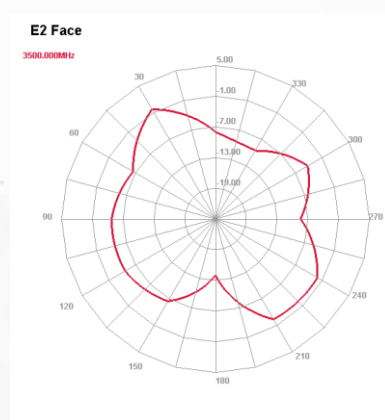
2600 MHz E plane



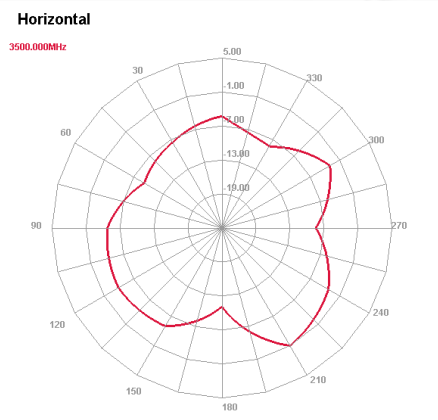
2600 MHz H plane



4800 MHz H plane



3500 MHz E plane

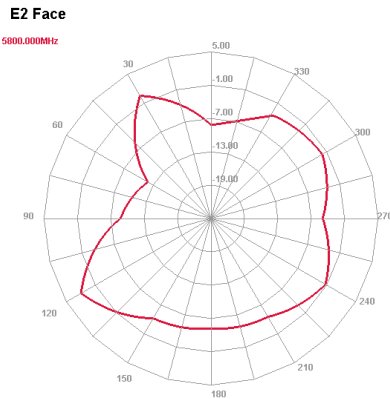


3500 MHz H plane

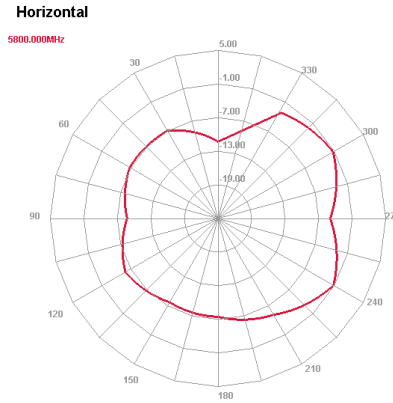
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

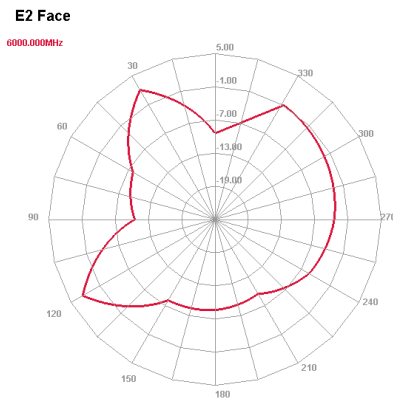
Radiation Pattern Antenna7



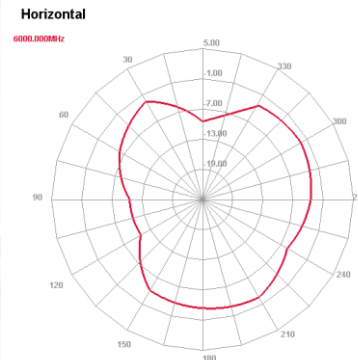
5800 MHz E plane



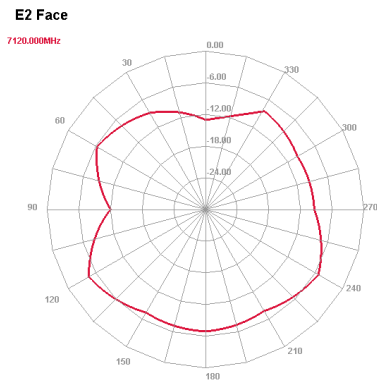
5800 MHz H plane



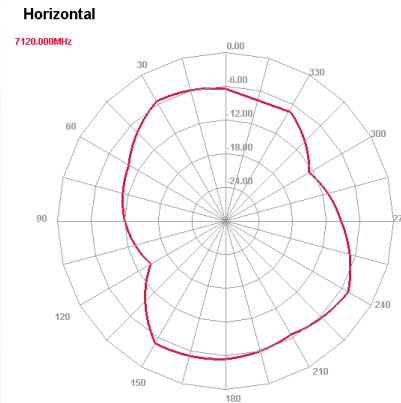
6000 MHz E plane



6000 MHz H plane



7120 MHz E plane

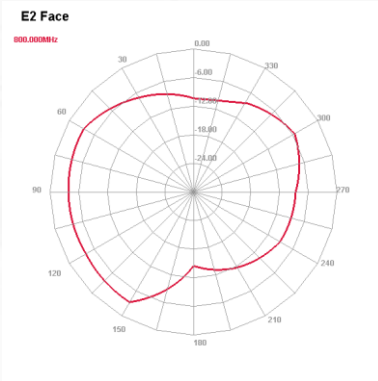


7120 MHz H plane

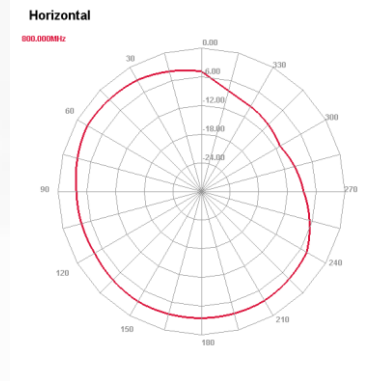
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

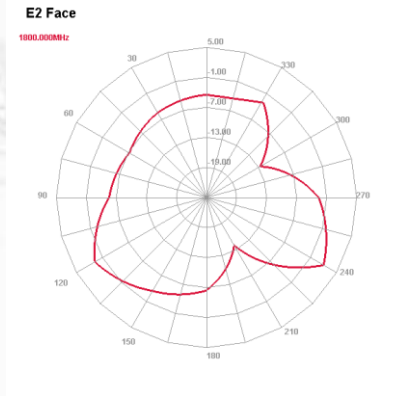
Radiation Pattern Antenna8



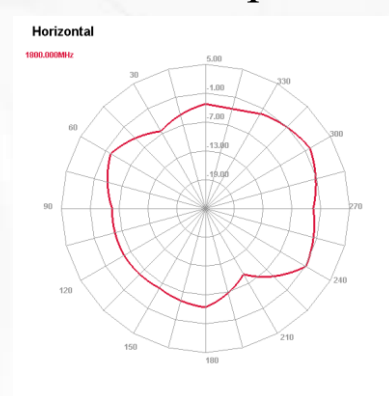
800 MHz E plane



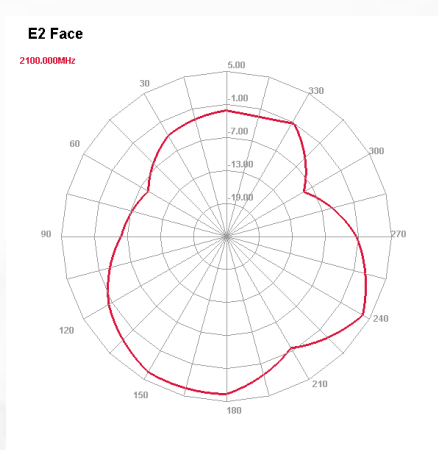
800 MHz H plane



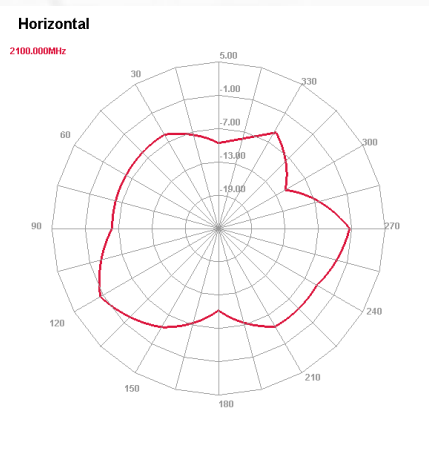
1800 MHz E plane



1800 MHz H plane



2100 MHz E plane

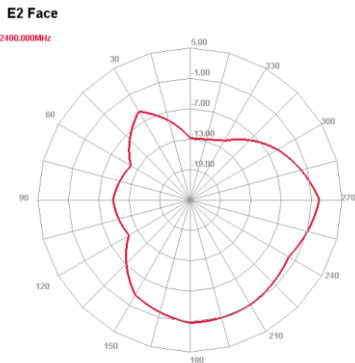


2100 MHz H plane

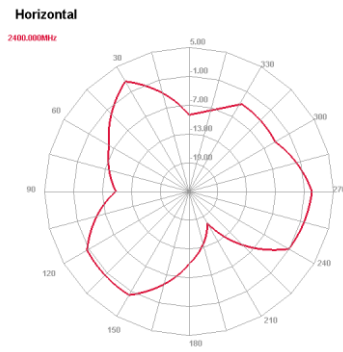
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

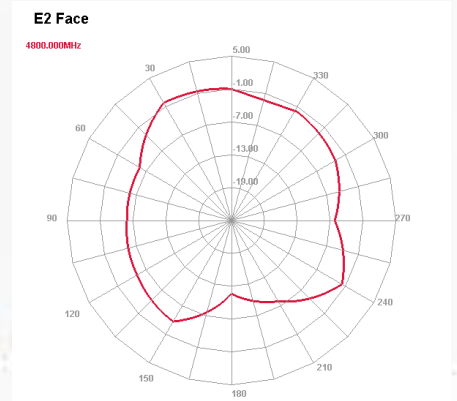
Radiation Pattern Antenna8



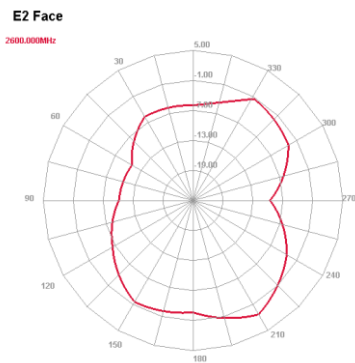
2400 MHz E plane



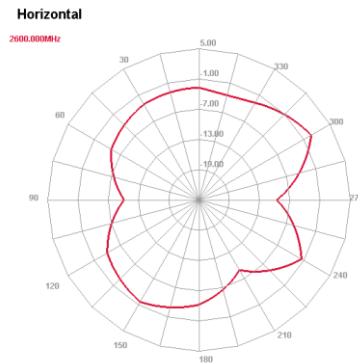
2400 MHz H plane



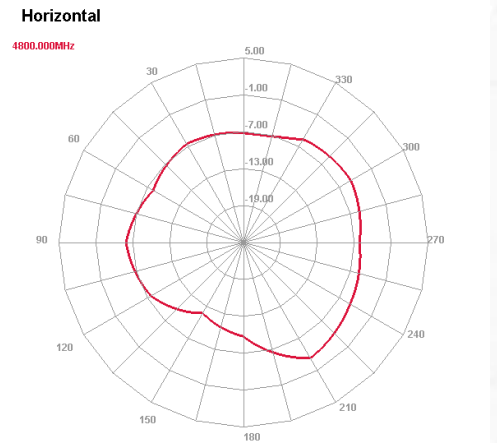
4800 MHz E plane



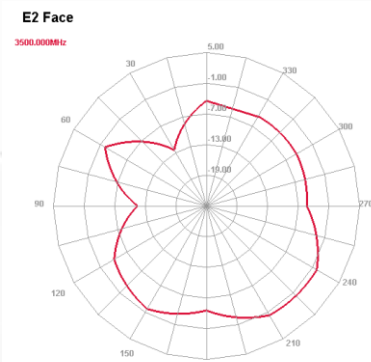
2600 MHz E plane



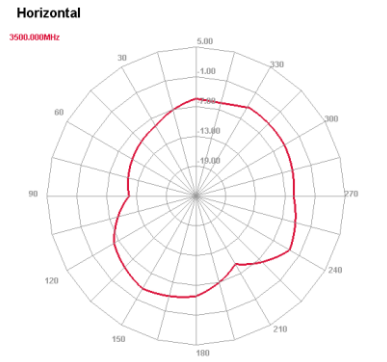
2600 MHz H plane



4800 MHz H plane



3500 MHz E plane

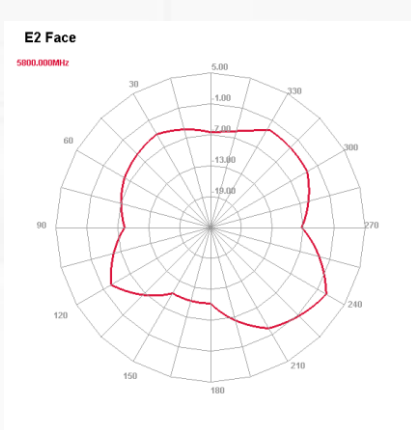


3500 MHz H plane

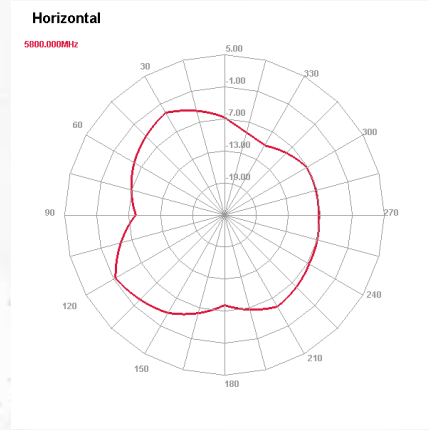
Maswell Cellular 5G/4G 8X8 MIMO Antenna Screw Mount IP67 UV stabilized L Plate Mount

AN_Master_Cubic-8C-LP

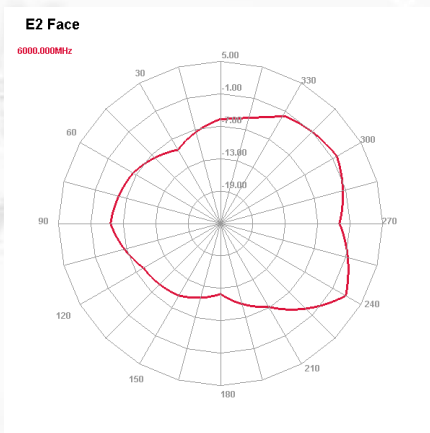
Radiation Pattern Antenna8



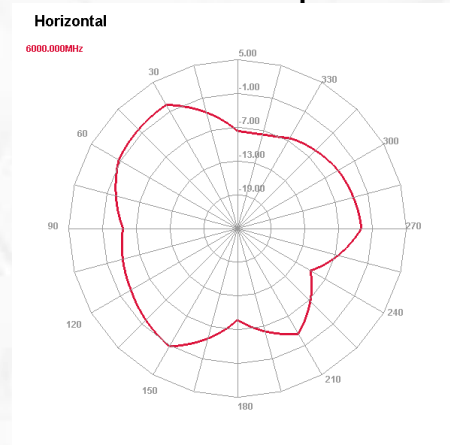
5800 MHz E plane



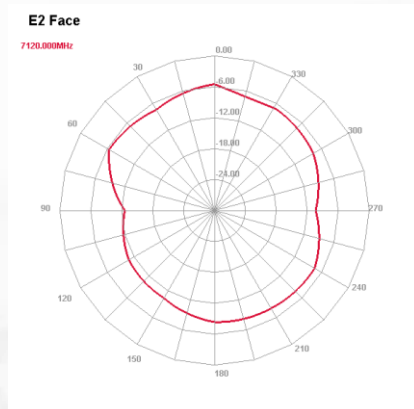
5800 MHz H plane



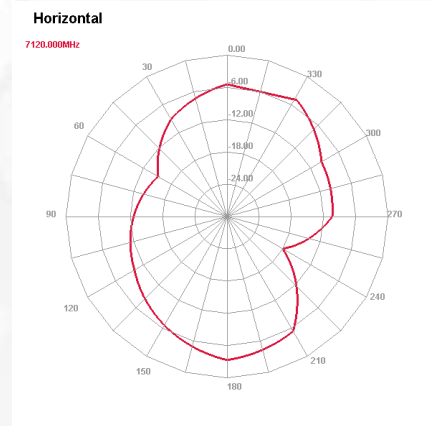
6000 MHz E plane



6000 MHz H plane



7120 MHz E plane



7120 MHz H plane