4G GSM / LTE / Wifi Gain Antenna

ANT-M4G3-SMA

Features

- Frequency Range
 - 690-960
 - 1710-2170
 - 2400-2700MHz
- Omni Directional 3 dBi Gain
- Rugged plastic finish IP65 Rated.
- Wall Mount Bracket
- 50ohm Impedance
- 3m RG58U with SMA Male
- Vertical Polarization
- V.S.W.R ≤2.5
- 270mm Long
- Operating Temp -30°C to +70°C



Applications

- 4G / LTE Applications
- GSM Applications
- WiFi

Description

A wall mount LTE and GSM antenna supplied with a 3m RG58U cable and male SMA connector. This ready to operate antenna required no tuning and provides optimum range and reliability to your application.

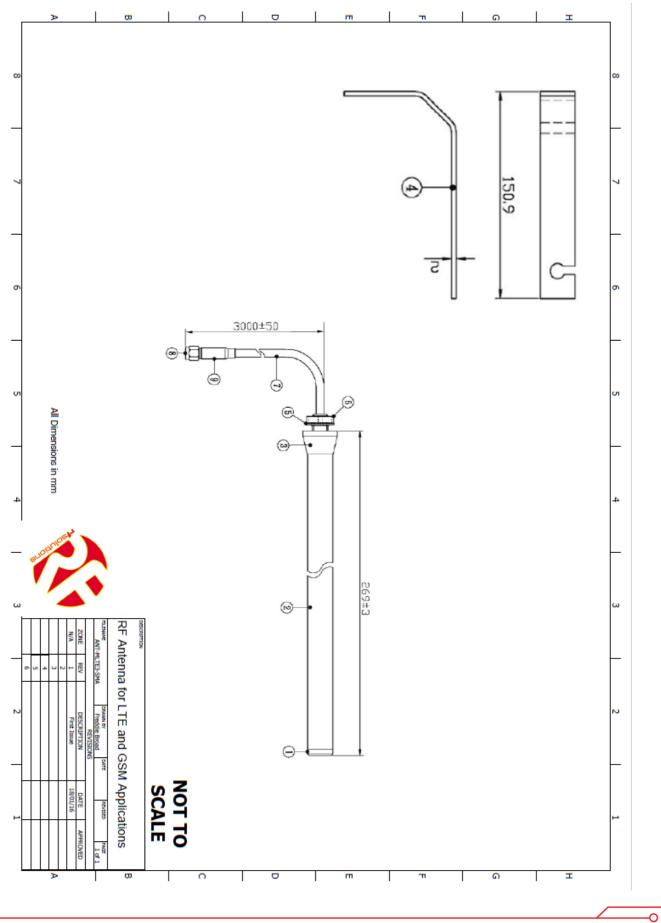
Ordering Information

Part No	Description
ANT-M4G3-SMA	4G LTE/GSM Outside antenna (IP65 Rated) with SMA Male Connector





Mechanical Drawing

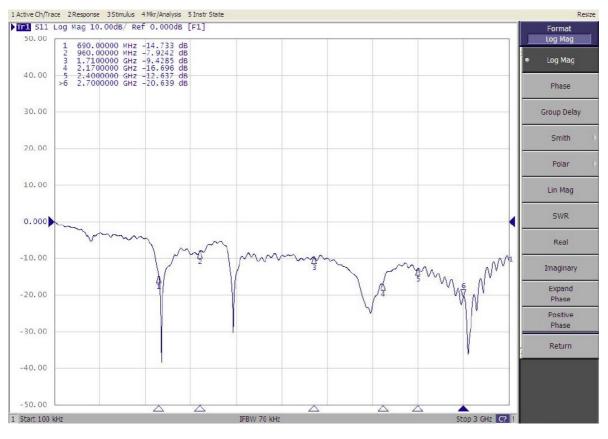




V.S.W.R Test Report



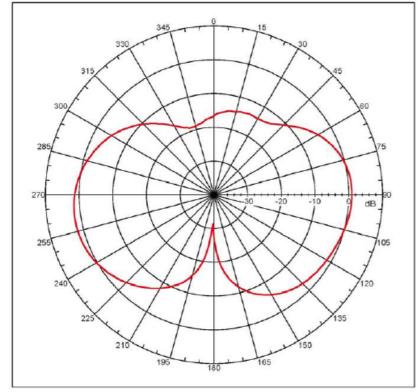
S11 Test Report

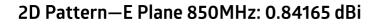




2D Pattern—E Plane 824MHz: 1.81917 dBi

Far-field amplitude of 20150701-4G ANT+CALBE-3.5M-E.nsi





Far-field asplitude, Eprincipal: Linear, Twu = 0.000 deg Gain = 1.0127 ddi Max fact/ledi (global) = -01.18017 db, Max far-field (plot) = Max fact/ledi (global) = -01.18017 db, Max far-field (plot) = Max fact/ledit (global) = -01.18017 db, Max far-field (plot) = Max fact/ledit (global) = -01.18017 db, Max far-field (plot) = Max fact/ledit (global) = -01.18017 db, Max far-field (plot) = Max fact/ledit (global) = -01.18017 db, Max far-field (global) = Max fact/ledit (global) = -01.18017 db, Max fact/ledit (global) = Max fact/ledit (global) = -01.18017 db, Max fact/ledit (global) = Max fact/ledit (global) = -01.18017 db, Max fact/ledit (global) = -01. db beam width : 02.151 dbg -18. db beam width : 02.151 dbg -18. db beam width : 02.151 dbg -18. db beam width : 02.164 db at 25.140 dbg Par-field db, Japlay at yp Par-field db, Japlay at yp Result - 160.18001 dbg, Center = 0.180 dbg, Pets = 1801 Blevatio (bdg) Center = 0.1809 dbg, epts = 1

Telected beam(s) 1 of 15 Beam Frequency Arimuth Elevation Fol 2 0.824 GHz Arimuth Elevation Single-pol

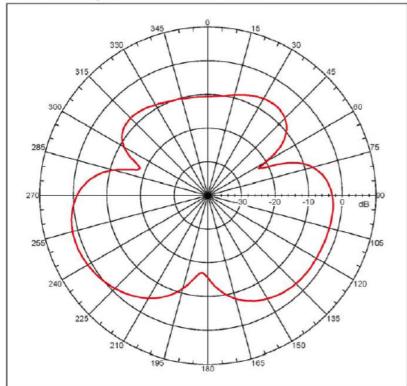
Far-field asplitude, Eptincipal: Linear, Tau = 0.000 deg Gain = 0.04015 dii Max far-field Ggloball = -40.41521 db. Max far-field (plot) = -40.41523 dB Moramilation: Enference, Network offset = 0.600 dB Mpaak at : -100.901 deg, Vpaak at 10.000 deg Hot centrations de 20150701-40 ANT-CALDE-3.5M-E H972000 V4.8.124, FilemanesC:\Documents and Settings\MBY\Deaktop\20 130701-40 ANT-CALDE-3.5M-E H9720100 V4.8.124, FilemanesC:\Documents and Settings\MBY\Deaktop\20 130701-40 ANT-CALDE-3.5M-E H9720100 V4.8.124, FilemanesC:\Documents Any values -6.440 dB -3. dB Meam width: 25.20 dAg -4. dB Meam width: 25.20 dAg -5. dB Meam width: 25.20 dAg -6. dB Meam width: 25.20 dAg -7. dB Meam width:

Selected beam(s) 1 of 15 Beam Frequency Aziauth Elevation Fol 3 0.816 GHz Aziauth Elevation Single-pol

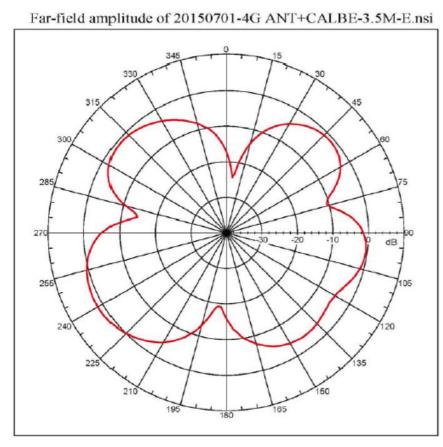


2D Pattern-E Plane 900MHz: 1.72636 dBi

Far-field amplitude of 20150701-4G ANT+CALBE-3.5M-E.nsi



2D Pattern-E Plane 960MHz: 1.60164 dBi



Far-field amplitude. Eptincipal: Linear, Tau = 0.000 deg Gain = 1.72516 dEi Max far-field (global) = -39.03332 db. Max far-field (plot) = -39.03233 dB Mormalization: Reference. Network offset = 0.600 dB Hoam at : -100.0501 deg, Vpeak at 0.000 deg Flot conterings Ga 20150701-46 ANT+CALSE-3.5M-E deg Elevation (deg) Center = 0.000 deg, #pts = 1 selected beam(p) 1 of 15 Beam Prequency Azimuth Elevation Fol 4 0.916 GHz Azimuth Elevation Single-pol

> Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gaim = 1.40164 dEi Max far-field (global) = -41.82803 db, Max far-field (plot) = -41.82803 dB Normalizations Reference. Network offset = 0.000 dB Hound at: -118.000 deg, Vpesk at: 0.000 deg 20150701-45 AMT+CALSE-3.5M-E

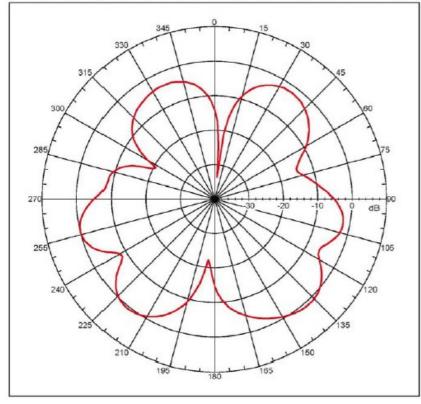
deg Elevation (deg) Center = 0.000 deg, #pts = 1

pelected beam(p) 1 of 15 Beam Frequency Azianth Elevation Fol 5 0.960 GHz Azianth Elevation Eingle-pol



E-Plane 1710MHz: 1.06143 dBi

Far-field amplitude of 20150701-4G ANT+CALBE-3.5M-E.nsi



Far-field amplitude, Eptincipal: Linear, Tau = 0.000 deg Gaim = 1.06103 dei Max far-field (slobal) = -44.13116 db, Max far-field (plot) = -94.13123 dB Normalizations and determore, Network offset = 0.000 dB Normalizations and deg, Vpaar at 0.000 deg Elot contexing; On 20150701-40 AMT+CALSE-3.5M-E 2013/001-00 ADV+COLDE-130+6 1507080 V-0.0124, Filemants C1/bocuments and Settings/M371Deaktop/20 150781-00 ANT+CALES-1.50(20159701-40 ANT+CALES-3.50+5.nml Measurement data/time: 1/1/2013 3151123 HG Filetype: NBI-97 Pay minus: -4.784 dBL art dag -6. dB bdam wieht d5.25 dag -10. dB beam wicht 35.30 deg Left 11delobe: 30.753.03 deg Left 11delobe: -2.PP dB at 202.575 deg Right 11dep dB at 202.575 deg Right 11deg Right 11deg Right 11deg Right 11deg Right 11deg R

Elevation (deg) Center = 0.000 deg, #pts = 1

Selected beam (s) 1 of 15 Beam Frequency Arisuth Elevation Fol 9 3.710 GHz Azisuth Elevation Eingle-pol

E-Plane 1800MHz: 1.76763 dBi

285

270

255

240

210

195

Far-field amplitude of 20150701-4G ANT+CALBE-3.5M-E.nsi 345 330 315 300 60

-20

-10

150

165

180

0 dB

35

Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = 1.76763 dei Max far-field (global) = -43.85441 db, Max far-field (plot) = -45.05440 dB Normalizations Reference, Network offset = 0.000 dB Hpak at: 125.900 deg, Vpak at: 9.000 deg Elot contering: on 20150201-45 3MT+CALSE-3.5M-E 2213/0701-40 JWP+C/LBS=3.34-E INTIGO V-4.0 JWP+C/LBS=3.34-E INTIGO V-4.0 JF4. Filemass: C:\Documents and Settings\W517\Desktop\20 150701-40 ANT+CALDES_3.54(20159701-40 ANT+CALDES_3.54-E.nsi Mearuresent data/time: 1/J2015 3151123 FM. Filetype: W01-97 Far-field Cut Analyzais: Arg value: -3.252 40 47 deg -6. dB beam vick1: 35.37 deg Left Sidelobe: 30.72 40 at deg -10. dB beam vick1: 35.37 deg Left Sidelobe: 30.75 40 at 105.307 deg Kight Sidelobe: 30.75 40 at 105.307 deg Kight Sidelobe: 30.75 40 at 205.307 deg Est Sidelobe: 30.75 40 at 205.307 40 Dievation (deg) Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 15 Beam Frequency Azimuth Elevation Pol 1.000 GHz Azimuth Elevation Single-pol 10



75

90

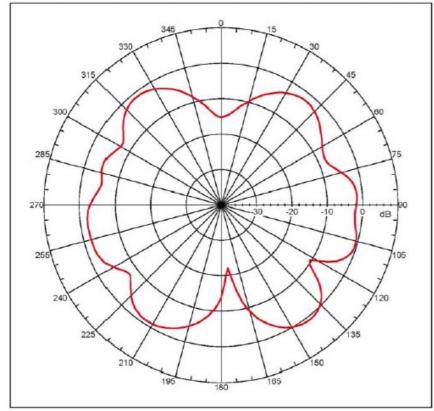
105

120



E-Plane 1900MHz: 0.96073 dBi

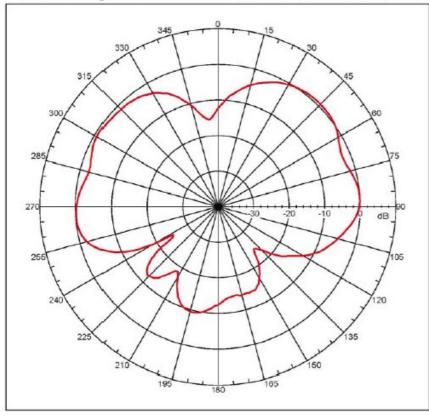
Far-field amplitude of 20150701-4G ANT+CALBE-3.5M-E.nsi



Fac-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Sais = 0.96012 dsi: Max far-field (plickal) = -46.07623 db, Max far-field (plot) = -46.07021 dg Normalization: Reference, Network offset = 0.000 db Hpak at: 141.9999 deg, Vpak at: 0.000 deg Eld contening: 0 20150701-45 AMT+CALSE-3.5M-E 2015/970-40 AMMYCAIRE-3.5M-E NST2000 V4.0.124, Filename:C:\Cocuments and Settings\M31\Deaktop\20 150701-00 ANT+CAIRE-3.5M/20159701-40 AMT+CAIRE-3.5M-E.mai Measurement data/time: 171/2015 351122 EM. Filetype: N0I-57 Far-field Cut Analysis Avg value: -4.289 40 -4. db beam width: 22.5 dag -10. db beam width: deg Elevation (deg) Center = 0.000 deg, #pts = 1 pelected beam [s) 1 of 15 Beam Frequency Ariswith Elevation Fol 11 3.900 GHz Ariswith Elevation Single-pol

E-Plane 2170MHz: 0.72134 dBi

Far-field amplitude of 20150701-4G ANT+CALBE-3.5M-E.nsi



Far-field emplitude, Eptincipal: Linear, Tau = 0.000 deg Gain = 0.7214 dEi Max far-field (global) = -46.81077 db. Mex far-field (plot) = -46.01002 dB Normalization: Reference. Network offset = 0.000 dB Hpeak at: 42.9999 deg, Vpeak at: 0.000 deg Elot contening: 00

20150701-45 MMT4CALSE-3.5M-E

2005001-00.A00-00280-3.58-5 155000-40.A00-00280-3.58-5 155000-40.A00-0284.Fiberse:C:Cocuments and Settings/NSIT/Nesktop/20 155001-00 AUT-CRAES-3.58(20159701-40 AUT-CRAES-3.584-E.nsi Monsutement data/time:1/1/2015 315123 EM. Filetype: NSI-97 Far-field Cut Analysis: Any raises -3.534 dati -4. da beam width: 02.40 404 -10. dB beam width: 10.43 deg Left Sidelobe: -1.37 40 at -57.310 405 Right Sidelobe: -1.37 40 at -57.310 405 Far-field display setup Atimath (605) Dest 40, 2001 409, Canter = 0.400 409, Fpts = 181 Deate - 380.08001 409, Stop = 100.00001 409, Delta = 2.000 409

deg Elevation (deg) Center = 0.000 deg, #pts = 1

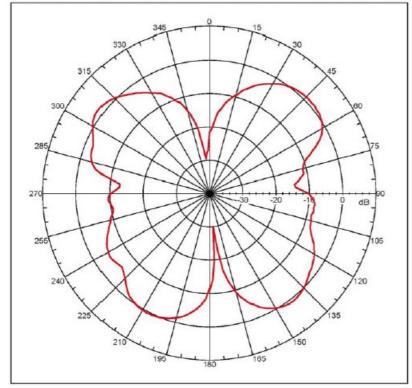
Selected beam (n) 1 of 15 Beam Frequency Ariauth Elevation Fol 12 2.170 GHz Ariauth Elevation Single-pol





E-Plane 2400MHz: 1.73269 dBi

Far-field amplitude of 20150701-4G ANT+CALBE-3.5M-E.nsi



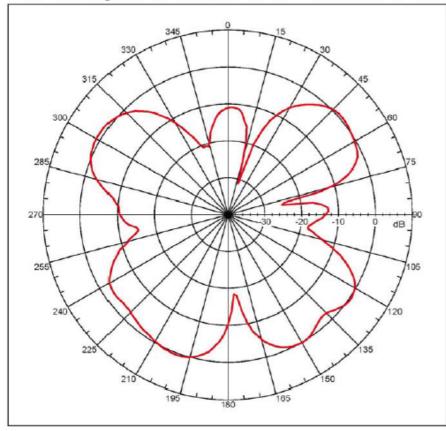
Far-field amplitude, Eprincipal: Linear, Yau = 0.000 deg Gair = 1.72209 dEi Max far-field (plot) = -47.27494 dB, Max far-field (plot) = -47.27494 dB, Max far-field (plot) = Normalization: Deference, Network offset = 0.000 dB Hpdak att = 54.000 deg, Vpcak att 8.000 deg 20150701-45 AMT+CAL88-3.5M-E

Dievation (deg) Center = 0.000 deg, #pts = 1

selected beam(s) 1 of 15 Beam Frequency Ariauth Elevation Fol 13 2.400 GHz Ariauth Elevation Eingle-pol

E-Plane 2500 MHz: 1.04758 dBi

Far-field amplitude of 20150701-4G ANT+CALBE-3.5M-E.nsi



Far-field amplitude, Eprincipal: Linear, 7au = 0.000 deg Gain = 1.04756 dEi Max far-field (plobal) = -49.08041 dB, Max far-field (plot) = -49.08046 dE Monalization: Beference, Network offset = 0.080 dB Hoak at: -60.0002 deg, Vpsak at: 0.080 deg Elot contentus; 40

20150701-45 AMT+CALSE-3.5M-E

2015701-40 AMT+CA188-3.34-5 HST280D V4.0.124, Filename.C.\Cocuments and Settings\BST\Desktop\20 150781-40 AMT+CA188-3.54(20159701-40 AMT+CA188-3.54-5.54) Measurement date/time: 1/1/2015 3151122 HK. Filetype: N01-57 Fary York 4.512.40 -6. db beam wicht: 35.90 deg -10. dB beam wicht: 35.90 deg Left Sidelobe: -11.35 dB at 3.017 deg Far-fald delobe: -11.35 dB at 3.017 deg Far-fald display setup Far-fald display setup Farta -30.08001 deg, Center = 0.800 deg, Mpts = 101 Bart - -30.08001 deg, Stop = 180.08001 deg, Delta = 2.019 deg

deg Blevation (deg) Center = 0.000 deg, #pts = 1

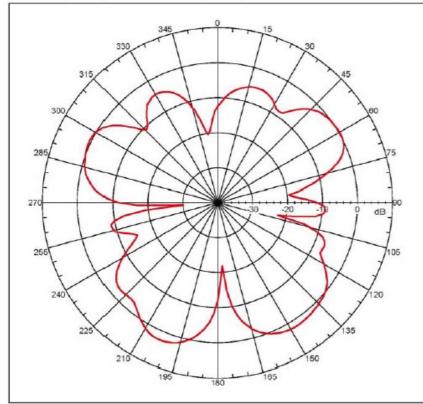
 Beam
 Frequency
 Ariseth
 Elevation
 Fol

 14
 2.500 GHz
 Ariseth
 Elevation
 Einle-pol



E-Plane 2600MHz: 2.59262 dBi

Far-field amplitude of 20150701-4G ANT+CALBE-3.5M-E.nsi



H-Plane 806MHz: 1.37841 dBi

Far-field amplitude of 20150701-4G ANT+CALBE-3.5M-H.nsi 345 15 330 30 315 45 300 285 75 270 an 30 -20 -10 dB 105 255 20 240 225 135 210 150 195 165 180

Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gaim = 2.59262 dBi Max far-field (global) = -47.72417 dB, Max far-field (plot) = -47.72425 dB Mosmalizations Reference, Network offset = 0.000 dB Houst at: -136.000 deg, Vpesk at: 0.000 deg 20150701-45 XMT+CALSE-3.5M-E 2015/01-40 AMP(+CALRE-3.5M-5 NST2000 V4.0.124, Filense:C:\Documents and Settings\N31\Desktop\20 150701-60 AVT+CALRE-3.5M(20159701-40 AVT+CALRE-3.5M-5.nml Measurement dota/time: 1/1/2015 351123 DH. Filetype: N01-57 Far-field Cut Analysis: Avg value: -4.167 dB. -6. dB beam width 46.00 deg -10. dB beam width 46.00 deg ist 21.462bet Hor Found Right 31de1bet: Hor Found Right 31de1bet: Hor Found Right 31de1bet: Hor Found Right 31de1bet: 40 Fou

deg Elevation (deg) Center = 0.000 deg, #pts = 1

selected beam(s) 1 of 15 Beam Frequency Arianth Elevation Fol 15 2.600 GHz Arianth Elevation Eingle-pol

Far-field amplitude, Eptincipal: Linear, Tau = 0.000 deg Gaiz = 1.27601 dEi Max far-field (global) = -41.30906 dB, Max far-field (plot) = -43.30906 dB Montalization: Reference, Network offset = 0.000 dB Hypeak at: -60.00001 deg, Vpsak at: 0.000 deg Elot constraing; co

20150701-45 AMT+CALSE-3.5M-H

subject to Markedows 5.50° House INST800 V-0.51° Filemane:C:\Documents and Settings\W3T)Deaktop\20 IS9701-so Antrecames.5.90(20159701-40 ANTREAMES.5.90° I.nsi Measurement data/ins: 1/1/2015 3126128 HG Filetype: W0I-97 Ary value: -0.077 dB Found -6. dB beam vieth: Not Found -10. dB beam vieth: Not Found -10. dB beam vieth: Not Found Last Lidelobe: -0.07 dB found Kight sidelobe: -0.07 dB found Exact Lidelobe: -0.07 dB found Exact Lidelobe: -0.07 dB found Fact Filedlobe: -0.07 dB found Fact Filedlobe: -0.07 dB found Kight sidelobe: -0.07 dB found Exact -100.08001 deg. Center - 0.000 deg. #pts = 101 Rtat: -100.08001 deg. Hop = 100.050001 deg. belte = 2.000 deg

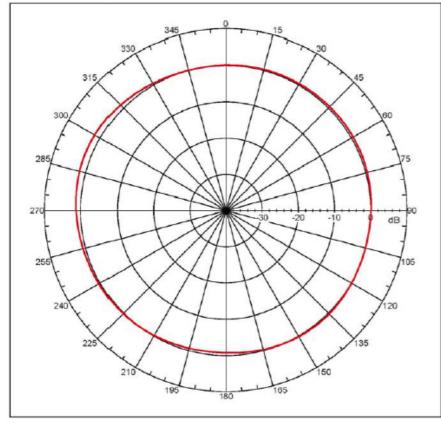
deg Blevation (deg) Center = 0.000 deg, #pts = 1

Selected beam (s) 1 of 15 Beam Frequency Aziauth Elevation Fol 1 0.006 GHz Aziauth Elevation Single-pol

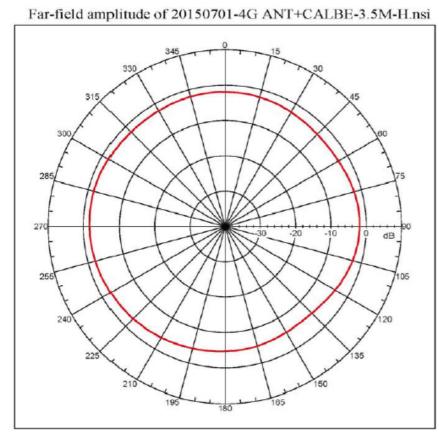


H-Plane 824MHz: 1.77902 dBi

Far-field amplitude of 20150701-4G ANT+CALBE-3.5M-H.nsi



H-Plane 850 MHz: -1.60185 dBi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = 1,77912 dBi Max far-field (global) = -41.22032 dB, Max far-field (plot) = -41.22042 dB Normalization: Reference, Network offset = 0.000 dB Hpalk at -68.000 deg, Vpalk at 0.000 deg Flot centering: On 20150701-45 AMT+CALSE-3.5M-H 20130701-40 JMP+C0188-3.34-H NST2000 V4.0.124, Filenzme:C:\Documents and Settings\MSI\Desktop\2D 150701-00 JMP+CARE+3.54020159701-40 JMP+CREF-3.54+H.ms1 Measurement date/ime: 1/1/2015 3126:20 FK, Filetype: W0I-97 Kar-field Cut Analysis Arg value: 0.771 dB -4. dB beam width: Not Found -5. dB beam width: Not Found Left Bidelobe: Not Found Kight Sidelobe: Not Found Kight Sidelobe: Not Found Kar-field display setp Arimoth (deg) Spam - 1803.00001 deg, Center = 0.800 deg, Mpts = 101 Statt - -180.00001 deg, Stop = 180.00001 deg, Leita = 2.800 deg deg Elevation (deg) Center = 0.000 deg, #pts = 1

Selected beam (s) 1 of 15 Beam Frequency Azisuth Elevation Fol 2 0.024 GHz Azisuth Elevation Single-pol 2

Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gaim = -1.60165 dBi Max far-field (global) = -42.85071 dB, Max far-field (global) = -42.85071 dB Moralizations Reference. Network offset = 0.000 dB Hoak at: -16.0001 dBy Vpak at: 0.000 deg Elot contenting to

20150701-45 XMT+CALSE-3.5M-H

20151701-45 XMTHCALLES-3.5K-H NST2000 V4.0.124, Filemame:Clockments and Settings\NST\Desktop\20 1550101-40 ANTHCALES-3.5K(20159701-40 ANTHCALES-5.5K-H.ms1 Mosurement date/imm: 7/1/2015 3126:20 HK Filetype: N01-97 Far-field Cut Analysis Any value: -0.407 dB -4. dB beam width: Not Found -10, dB beam width: Not Found 10, dB beam width: Not Found Lefs iidelobe: -0.24 dB at 87.486 deg Far-field display satur Rimuth (deg) ppm = 284.00801 deg, Center = 0.000 deg, #pts = 181 Etatt - -300.08001 deg, Stop = 180.08001 deg, belse = 2.003 deg_______

deg Elevation (deg) Center = 0.000 deg, #pts = 1

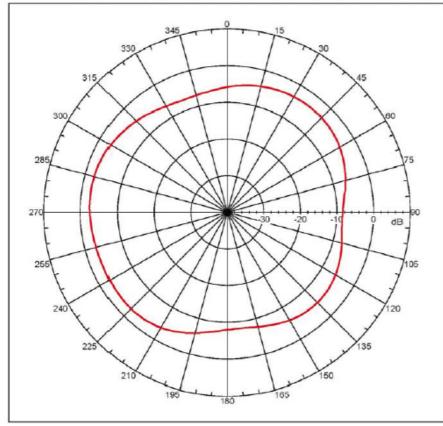
Selected beam(s) 1 of 15 Beam Frequency Arisuth Elevation Pol

6.850 GHz Azisuth Elevation Single-pol



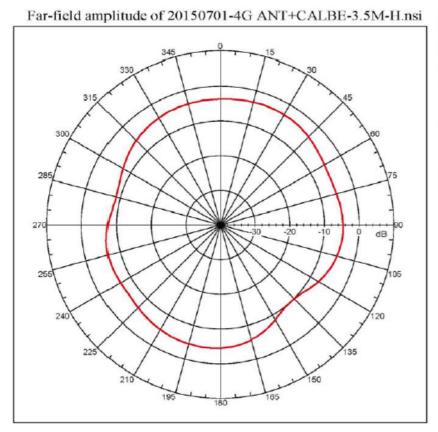
H-Plane 900MHz: -2.47165 dBi

Far-field amplitude of 20150701-4G ANT+CALBE-3.5M-H.nsi



Far-field amplitude, Eprincipal: Linear, 7au = 0.000 deg Gaim = -2.47165 dEi Max far-field (plobal) = -44.83133 dB. Max far-field (plot) = -44.03134 dB. Max far-field (plot) = 0.003124 dE Moralizeitoi.0.000 dE Methods (plot) dEg Plot centering: On 20150701-45 AMT+CALSE-3.5M-H deg Elevation (deg) Center = 0.000 deg, #pts = 1 Selected beam(s) 1 of 15 Beam Frequency Ariswith Elevation Fel 4 0.000 GHz Ariswith Elevation Eingle-pel

H-Plane 960MHz: -3.26146 dBi



Far-field emplitude, Eptincipal: Linear, Tau = 0.000 deg Gain = -3.26146 GBi Max far-field (global) = -45.89113 dB, Max far-field (global) = -45.99134 GB Normaliartion: Reference, Network offset = 0.000 dB Hpak at: 19.9999 deg, Vpak at: 0.000 deg Elot contening: 0 20150701-45 AMT+CALSE-3.5M-H

2015 001-00 ART+CALSE_3.54.7 INST200 V4.0.134.7 Flepsmer:C:\Cocuments and Settings\MST\Deaktop\20 150701-00 ART+CALSE_3.54(20159701-40 ART+CALSE-3.56-1.nsi Measurement dat/time:1/12815 3126128 HK Fletype: W01-97 Fac-fled Cut Analysis: Ary value: -5.182 40 m.18 dag -6. dB beam width: Not Found -10, dB beam width: Not Found -10, dB beam width: Not Found Left Sidelobe: Ast Found Left Sidelobe: Ast Found East Field display setup Fac-field beam width: Not Found East Field display setup Fac-field beam width: Not Found East Field display setup Fac-field beam width: Not Found East Field display setup Fac-field beam width: Not Found East Field display setup Fac-field beam width: Not Found East Field display setup Fac-field beam width: Not Found East Field display setup Fac-field beam width: Not Found East Field display setup Fac-field beam width: Not Found East Field display setup Fac-field beam width: Not Found Fac-

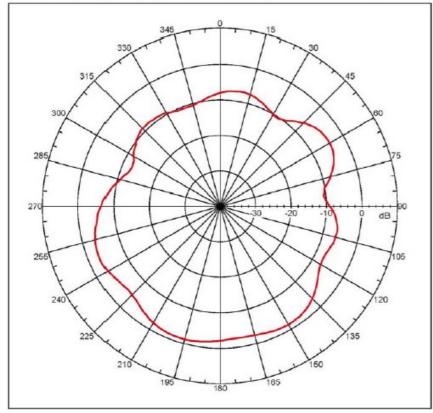
eg Elevation (deg) Center = 0.000 deg, #pts = 1

Selected beam (s) 1 of 15 Beam Frequency Ariswith Elevation Fol 5 0.960 GHz Ariswith Elevation Single-pol



H-Plane 1710MHz -1.21375 dBi

Far-field amplitude of 20150701-4G ANT+CALBE-3.5M-H.nsi



Far-field amplitude, Eprincipal: Linear, 7au = 0.000 deg Gain = -1.21215 GA: Max far-field (plobal) = -46.40634 db, Max far-field (plot) = -46.40648 dB Normalization: Reference. Network offset = 0.000 dB Hpeak at: -164.000 deg, Vpeak at: 0.008 deg 20150701-45 AMT+CAL88-3.5M-H 2009/01-00 Amtrocade 5.34*/1
50700-00 Amtrocade 5.34*/1
150700-00 Antrocade 5.34* deg Bievstion (deg) Center = 0.000 deg, #pts = 1 Selected beam (s) 1 of 15 Beam Frequency Azisuth Elevation Fol 9 3.710 GHz Azisuth Elevation Single-pol

H-Plane 1800MHz: 0.29161 dBi

Far-field amplitude of 20150701-4G ANT+CALBE-3.5M-H.nsi 0 345 15 330 315 300 285 75 270 an 20 -10 dB 105 255 120 135 225 210 150 195 165 180

Fur-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gaim = 0.29161 (Bi Max far-field (global) = -06,57043 db, Max far-field (glot) = -65,52043 db, Max far-field (glot) = -65,52043 db, Max far-field (glot) = -65,51043 db, Max far-field (glot

20150701-49 ANT+CALSE-3.5M-H

20150781-0# ANT-CASE-3.34-4 NET200 VA.0124, FilesmestC:/poruments.add Sottings/MD1/Nanktop/20 159702-05 ANT-CALES-3.904.20150701-45 ANT-CALES-3.94-H.nal Messurement dato/tise://J/SCL5.313625 FM, Filetype: H2I-97 Fdr-field Cut Analysis: Ang values -3.40 Add Sot -4.40 Desa vidth: 50.42 Cog -10.40 Desa vidth: 50.42 Cog -10.40 Desa vidth: Not Toxad Left Sidainbe: -2.12 dB at 15.084 deg Right Sidainbe: -2.04 GB at 125.090 deg Par-field display setup Isaat - 100.4001 deg, Stop - 103.0001 deg, Delta = 2.000 deg

deg Elevation (deg) Center = 0.000 deg, #pts = 1

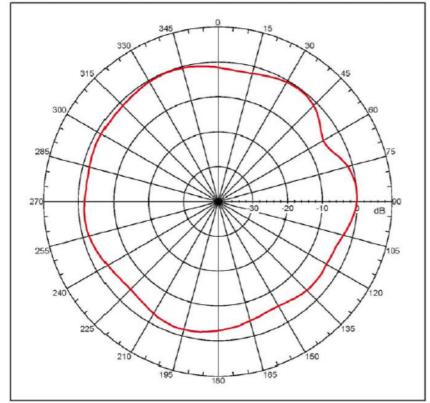
Selected beam(s) 1 of 15 Deam Prequesty Arisuth Elevation Fol 10 1.800 GHz Atimuth Elevation Hingle-pol





H-Plane 1900MHz: -0.03944 dBi

Far-field amplitude of 20150701-4G ANT+CALBE-3.5M-H.nsi



Ear-field amplitude, Eprincipal: Linear, 7au = 0.000 deg Gain = -0.02744 dBi Max far-field (alcbal) = -47.0764 dB. Max far-field (plot) = -47.07661 dB Mormalization: Reference, Hetwork offset = 0.000 dB Hpeak at: 85.9999 deg, Upeak at: 0.000 deg Elot contering:
 -020150701-4G AMT+CALSE-3.5M-H 2103010-80 AMT+CALBE-1.9M-H METHOD V4.0.124. FilewaseCV10counsents and Settings(MDT)Desktop/20 150701-80 AMT+CALBE-3.9M/2015701-40 AMT+CALBE-3.5m-n.msi Nauuteemat datottme: 1/1/2015 3126120 KG Filetype: N01-97 Far-field Cut Analysis: Arg walker 2-251 40 22 deg -6. GB beam width Not Pound -10. dB beam width Not Pound Ist Sidelobe: 30 to Pound Far-field display detup Far-field display display detup Far-field deg Elevation (deg) Center = 0.000 deg, #pts = 1 elected beam (m) 1 of 15 nom Frequency Arimuth Elevation Fol 1 1.900 GHz Arimuth Elevation Single-pol

11

H-Plane 2170MHz: 0.020 dBi

Far-field amplitude of 20150701-4G ANT+CALBE-3.5M-H.nsi 0 345 15 330 30 315 45 300 30 285 175 270 ŧю -20 10 30 dB 105 255 240 20 135 225 150 210 195 165 180

Far-field amplitude, Eprincipal: Linear, 7mu = 0.000 deg Gain = 0.020 dBi Max far-field (plobal) = -47.51211 dB, Max far-field (plot) = -47.51212 dB (plot) = -0.000 dB Hoak at 29.59595 deg, Vpeak at 0.000 deg Flot contering: On 20150701-45 XMT+CALSE-3.5M-H 2105070-40 JMT+CALBE-3.54-H NST2000 V4.0.124, Filename:C:\Documents and Settings\MST\Desktop\20 150703-40 Aprreates-3.54010159701-40 ANT+CALBE-3.540+H.ml Measurement date/imme: 7/1/215 3136120 HK, Filetype: W0I-97 Far-field Cut Analysis: Arg sluo: -0.178.48 Arg

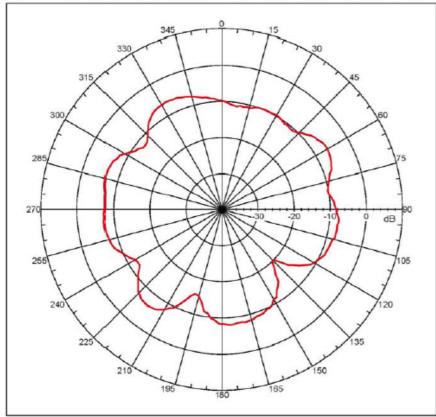
deg Elevation (deg) Center = 0.000 deg, spis = 1

Selected beam (s) 1 of 15 Beam Frequency Arisuth Elevation Fol 12 2.175 GHz Arisuth Elevation Single-pol



H-Plane 2400MHz -6.23579 dBi

Far-field amplitude of 20150701-4G ANT+CALBE-3.5M-H.nsi



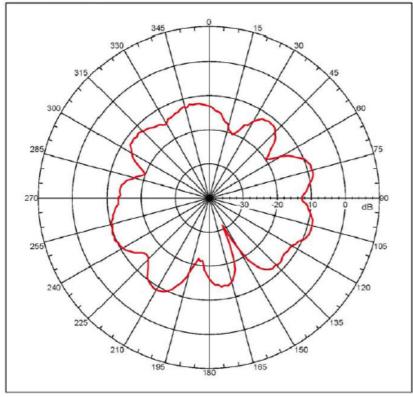
Far-field amplitude, Eprincipal: Linear, Yau = 0.000 deg Gmin = -6.23519 dbi Max far-field (global) = -55.24242 db, Max far-field (plot) = -55.2424d db Normalization: Defense, Network offset = 0.000 db Normalization: Defense, Network offset = 0.000 db Normalization: Optimized and the second seco 20150701-46 AMT+CALBE-3.5H-H Elevation (deg) Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 15 Beam Frequency Aristh Elevation Fol

2,400 GHz Azimuth Elevation Single-pol 13

H-Plane 2500MHz: -8.61832 dBi

Far-field amplitude of 20150701-4G ANT+CALBE-3.5M-H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gaim = -8.61322 GBi Max far-field (ploba) = -58.75431 dB, Max far-field (plot) = -59.75440 GB Mormaliation: Reference. Network offset = 0.000 dB Mormaliation: Reference. Network offset = 0.000 dB Mormaliation: deg, Vpeak at 0.000 deg Elot contening) on

20150701-45 AMT+CALSE-3.5M-H

2015/001-80 AMT+401288-3.3M-H NET2080 V4.0.1244 Filewass.Cliboursents and Settings/BST/Desktop/20 150701-80 AnT+CALES-3.5M/20159701-40 ANT+CALES-3.5M-H.msi Measuresent datc/time:1/1/2015 3126128 EM Filetype: NUI-97 Far-field Cut Analysis: Any value: -13.65 dB is day -1.0. dB beam width: 50.42 day -10. dB beam width: 50.42 day -10. dB beam width: 50.70 day Left Sidelobe: -0.70 dB is t 43.20 day Right Sidelobe: -0.70 dB is t 43.20 day East Field Cuts_100 at 107.390 day Far-field Cuts_100 at 107.390 day Far-field Cuts_100 at 107.390 day. Epss -250.00001 day. Center = 0.800 day, fpts = 101 Btatt= -300.0001 day. Center = 0.800 day, belts = 2.000 day.

eg Blevation (deg) Center = 3.000 deg, #pts = 1

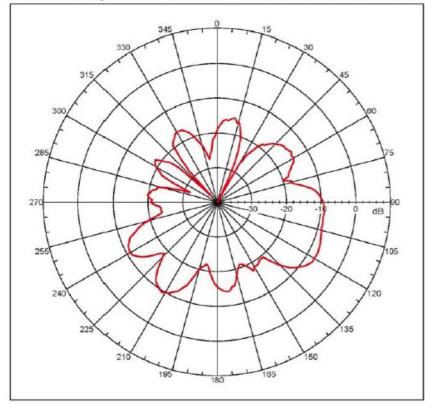
- selected beam(m) 1 of 15 Beam Frequency Arianth Elevation Fol 14 2.500 GHz Arianth Elevation Single-pol





H-Plane 2600MHz: -7.49977 dBi

Far-field amplitude of 20150701-4G ANT+CALBE-3.5M-H.nsi



Far-field maplitude, Eptincipal: Linear, Tau = 0.000 deg Gmim = -1.49717 dmi Nex far-field (global) = -57.8305 dm, Max far-field (plot) = -57.83653 dB Normalization: Reference, Network offset = 0.000 dB Hpeak at: 11.99999 dmg, Vpeak at: 0.000 dmg Elot contention; co 20150701-40 AMCMCAIBE-3.SM-H NETCOD0 V4.0.124, Filename:Cl'Locuments and Settings/NEFI/Desktop/20 155703-40 AMCMCAIBE-3.SM-H NETCOD0 V4.0.124, Filename:Cl'Locuments and Settings/NEFI/Desktop/20 155703-40 AMCMCAIBE-3.5M-H NetCoD0 V4.0.124, Filename:Cl'Locuments Amount at the set of the set of the set of the set of the set Amount at the set of the set of the set of the set -3. dB beem width: 44.15 deg -10. dB beem width: 44.15 deg -10. dB beem width: 45.50 deg Hert Bidelobe: -10.44 dB at 153.453 deg Kight 3idelobe: -10.44 dB at 153.453 deg Start: -380.10801 deg, Center = 0.000 deg, Mpts = 181 Bogm = 186.00801 deg, Stop = 100.00001 deg, Ielta = 2.009 deg Elevation [deg] Center = 0.000 deg, Spts = 1

Selected beam (s) 1 of 15 Beam Frequency Arinuth Elevation Fol 15 2.600 GHz Arinuth Elevation Single-col

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Disclaimer:

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