

# Report of 20070116\_TycoMainAnt()+PulseDA()+GS2

## 20070116\_TycoMainAnt(1513582-1rev3)+PulseDAnt(band1)+GS2



## 20070116\_TycoMainAnt(1513582-1rev3)+PulseDAnt(band1)+GS2

### ▲ TycoMainAnt(1513582-1revB)+PulseDAnt(band1)50OhmLoaded+GS2

#### ▲ DataCorrected

#### ▲ NF to FF transform

#### ▲ Q1Q2

#### ▲ Accum(n,m)

#### ▲ Accum cuts

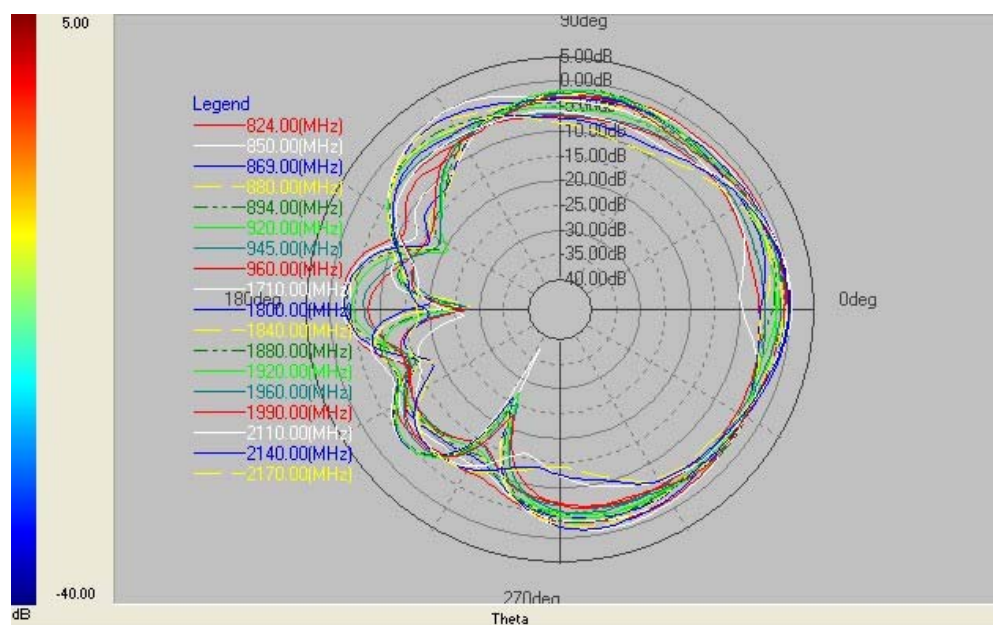
#### ▲ Power info

#### ▲ PnPm

#### ▲ Phi=0.00deg

#### ▲ Phi=0.00deg

Gain . dB



Average

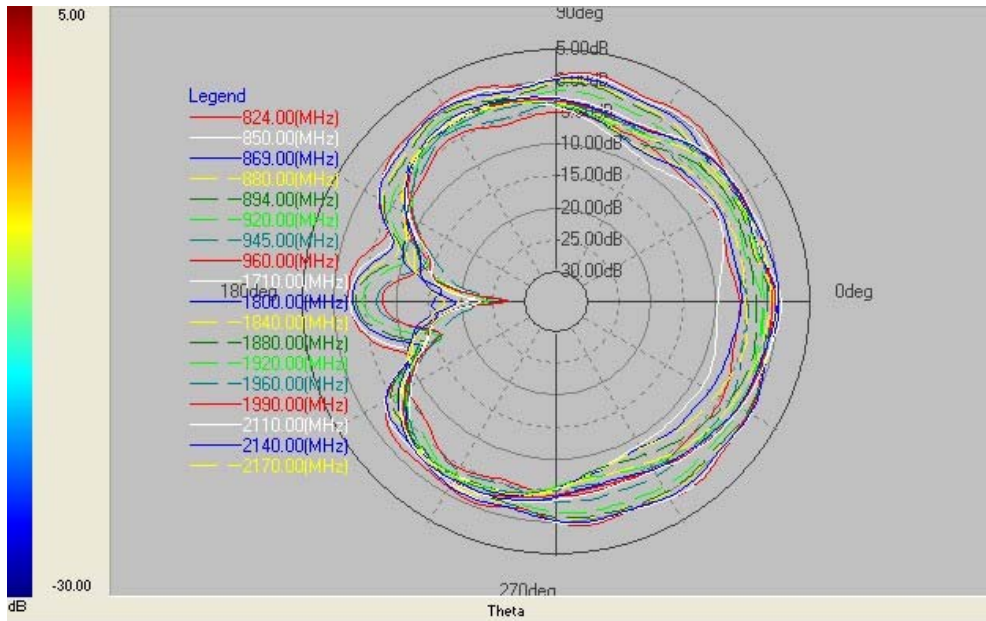
- 1:-3.411 dB
- 2:0 dB
- 3:0 dB
- 4:-3.411 dB

Layer	Max value	Position	Min value	Position	BeamWidth	[Unknown message 1098]	Average	Standard deviation	Marker 1 pos	Marker 1 value	Marker 2 pos	Marker 2 value
824(MHz)	-0.33 dB	4.00 deg	-13.27 dB	-160.00 deg	187.48 deg	12.94 dB	-3.41 dB	3.18	----	----	----	----
850(MHz)	0.50 dB	2.00 deg	-13.74 dB	-160.00 deg	98.54 deg	14.24 dB	-3.58 dB	3.83	----	----	----	----
869(MHz)	0.13 dB	4.00 deg	-16.59 dB	152.00 deg	80.19 deg	16.72 dB	-4.06 dB	4.27	----	----	----	----
880(MHz)	-0.57 dB	4.00 deg	-17.86 dB	152.00 deg	90.59 deg	17.29 dB	-4.60 dB	4.34	----	----	----	----
894(MHz)	-0.97 dB	4.00 deg	-19.40 dB	152.00 deg	101.41 deg	18.43 dB	-4.73 dB	4.38	----	----	----	----
920(MHz)	-2.55 dB	-4.00 deg	-20.88 dB	152.00 deg	169.26 deg	18.33 dB	-5.50 dB	4.25	----	----	----	----
945(MHz)	-4.30 dB	-22.00 deg	-18.44 dB	152.00 deg	216.40 deg	14.14 dB	-6.86 dB	3.74	----	----	----	----

960(MHz)	-4.89 dB	-36.00 deg	-16.13 dB	152.00 deg	223.57 deg	11.23 dB	-7.40 dB	3.24	----	----	----	----
1710(MHz)	-0.06 dB	120.00 deg	-37.41 dB	-118.00 deg	43.28 deg	37.35 dB	-4.29 dB	5.26	----	----	----	----
1800(MHz)	-1.11 dB	126.00 deg	-26.24 dB	-118.00 deg	132.59 deg	25.13 dB	-4.25 dB	4.58	----	----	----	----
1840(MHz)	-1.43 dB	128.00 deg	-28.22 dB	178.00 deg	141.71 deg	26.79 dB	-4.26 dB	5.01	----	----	----	----
1880(MHz)	-1.51 dB	78.00 deg	-26.54 dB	178.00 deg	110.74 deg	25.02 dB	-4.33 dB	5.02	----	----	----	----
1920(MHz)	-1.25 dB	16.00 deg	-27.61 dB	-116.00 deg	119.74 deg	26.37 dB	-4.37 dB	5.27	----	----	----	----
1960(MHz)	-1.21 dB	12.00 deg	-27.76 dB	-180.00 deg	156.88 deg	26.55 dB	-4.85 dB	5.78	----	----	----	----
1990(MHz)	-0.65 dB	8.00 deg	-27.47 dB	-180.00 deg	93.15 deg	26.83 dB	-5.03 dB	5.59	----	----	----	----
2110(MHz)	0.13 dB	6.00 deg	-26.81 dB	-176.00 deg	56.39 deg	26.95 dB	-5.68 dB	5.65	----	----	----	----
2140(MHz)	-0.08 dB	2.00 deg	-19.93 dB	-178.00 deg	55.45 deg	19.86 dB	-5.76 dB	4.81	----	----	----	----
2170(MHz)	-1.34 dB	0.00 deg	-18.52 dB	-156.00 deg	61.00 deg	17.17 dB	-6.35 dB	4.63	----	----	----	----

▲ Phi=90.00deg  
▲ Phi=90.00deg

Gain . dB



Average

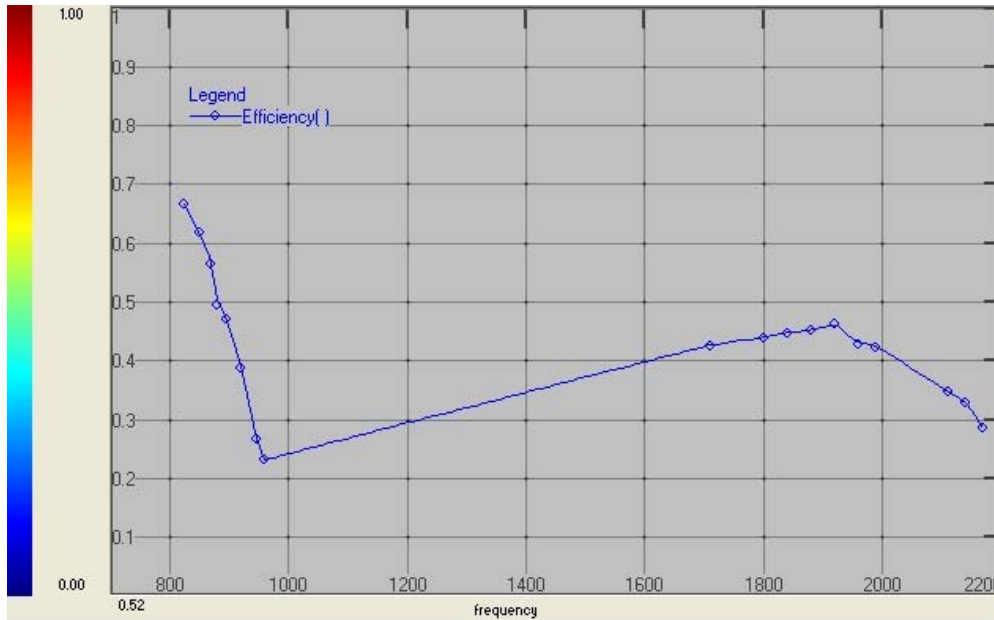
- 1:-0.7779 dB
- 2:0 dB
- 3:0 dB
- 4:-0.7779 dB

Layer	Max value	Position	Min value	Position	BeamWidth	[Unknown message 1098]	Average	Standard deviation	Marker 1 pos	Marker 1 value	Marker 2 pos	Marker 2 value
824(MHz)	1.39 dB	82.00 deg	-10.34 dB	-160.00 deg	109.39 deg	11.72 dB	-0.78 dB	2.17	----	----	----	----
850(MHz)	1.12 dB	-56.00 deg	-10.87 dB	-160.00 deg	137.17 deg	11.99 dB	-0.96 dB	2.28	----	----	----	----
869(MHz)	0.65 dB	-56.00 deg	-12.72 dB	-162.00 deg	163.43 deg	13.38 dB	-1.29 dB	2.46	----	----	----	----
880(MHz)	0.02 dB	-56.00 deg	-13.68 dB	-162.00 deg	163.33 deg	13.71 dB	-1.88 dB	2.54	----	----	----	----
894(MHz)	-0.12 dB	-28.00 deg	-13.82 dB	-162.00 deg	160.42 deg	13.70 dB	-2.13 dB	2.59	----	----	----	----

920(MHz)	-1.23 dB	-58.00 deg	-16.19 dB	-164.00 deg	142.03 deg	14.96 dB	-3.20 dB	2.75	----	----	----	----
945(MHz)	-3.28 dB	-58.00 deg	-16.64 dB	-164.00 deg	275.50 deg	13.36 dB	-5.18 dB	2.63	----	----	----	----
960(MHz)	-4.36 dB	-86.00 deg	-16.04 dB	-164.00 deg	285.59 deg	11.68 dB	-6.14 dB	2.39	----	----	----	----
1710(MHz)	-2.45 dB	120.00 deg	-22.17 dB	176.00 deg	58.86 deg	19.71 dB	-6.43 dB	4.12	----	----	----	----
1800(MHz)	-2.49 dB	112.00 deg	-16.82 dB	176.00 deg	65.03 deg	14.33 dB	-5.72 dB	3.23	----	----	----	----
1840(MHz)	-2.23 dB	108.00 deg	-20.34 dB	178.00 deg	65.21 deg	18.11 dB	-5.34 dB	3.79	----	----	----	----
1880(MHz)	-2.33 dB	112.00 deg	-24.29 dB	178.00 deg	61.99 deg	21.96 dB	-4.95 dB	4.56	----	----	----	----
1920(MHz)	-1.85 dB	-20.00 deg	-24.62 dB	178.00 deg	114.50 deg	22.77 dB	-4.44 dB	4.90	----	----	----	----
1960(MHz)	-1.51 dB	-18.00 deg	-27.76 dB	-180.00 deg	119.82 deg	26.25 dB	-4.11 dB	5.74	----	----	----	----
1990(MHz)	-0.96 dB	-8.00 deg	-27.47 dB	-180.00 deg	115.10 deg	26.51 dB	-3.54 dB	5.38	----	----	----	----
2110(MHz)	-0.14 dB	2.00 deg	-23.10 dB	-180.00 deg	105.25 deg	22.96 dB	-3.14 dB	5.08	----	----	----	----
2140(MHz)	-0.01 dB	4.00 deg	-19.18 dB	-180.00 deg	93.97 deg	19.17 dB	-3.37 dB	4.20	----	----	----	----
2170(MHz)	-1.19 dB	10.00 deg	-17.27 dB	-178.00 deg	99.36 deg	16.07 dB	-4.11 dB	3.73	----	----	----	----

▲ NF to FF transform Efficiency  
 ▲ NF to FF transform Efficiency

**Efficiency**



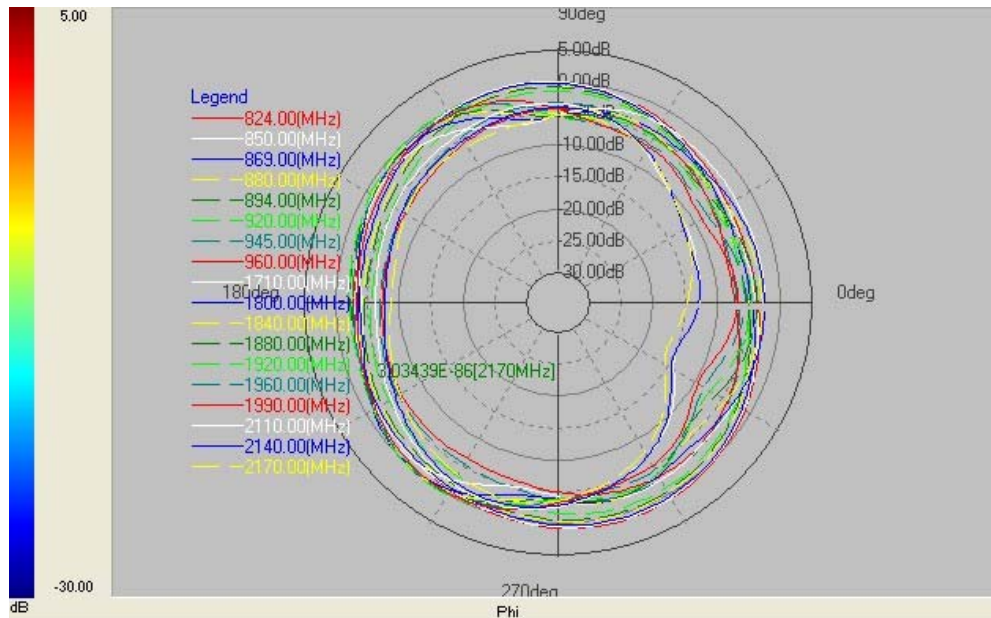
Average

- 1:0.373
- 2:0
- 3:0
- 4:0.373

Layer	Max value	Position	Min value	Position	BeamWidth	[Unknown message 1098]	Average	Standard deviation	Marker 1 pos	Marker 1 value	Marker 2 pos	Marker 2 value
Efficiency	0.67	824.00 MHz	0.23	959.96 MHz	----	0.43	0.37	0.08	----	----	----	----

▲ NF to FF transform Expanded  
 ▲ Theta=-90.00deg  
 ▲ Theta=-90.00deg

**Gain . dB**



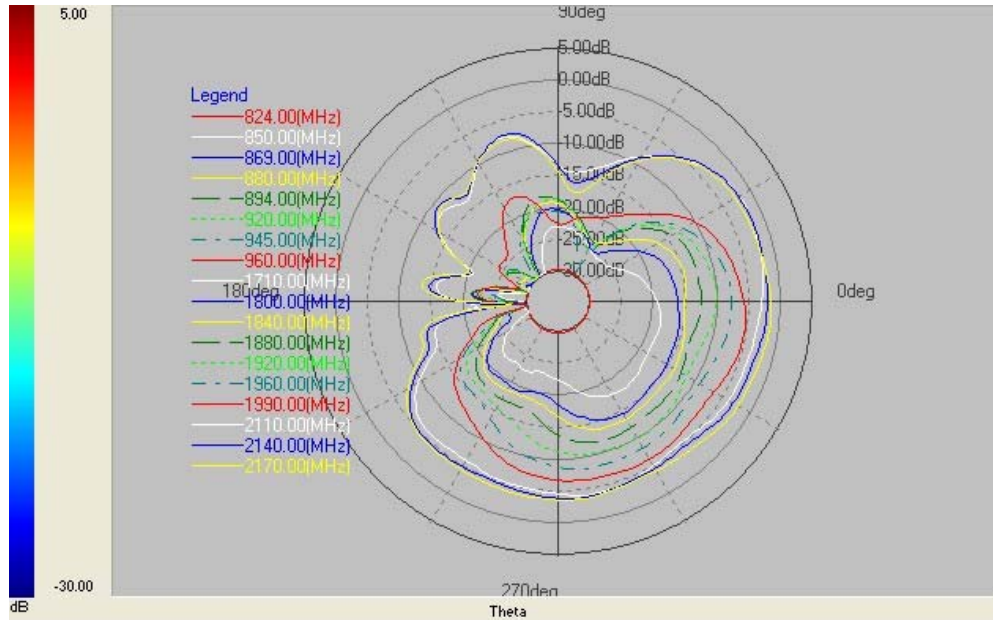
Average

- 1:-1.309 dB
- 2:0 dB
- 3:0 dB
- 4:-1.309 dB

Layer	Max value	Position	Min value	Position	BeamWidth	[Unknown message 1098]	Average	Standard deviation	Marker 1 pos	Marker 1 value	Marker 2 pos	Marker 2 value
824(MHz)	0.78 dB	288.00 deg	-4.22 dB	20.00 deg	143.16 deg	5.00 dB	-1.31 dB	1.43	----	----	----	----
850(MHz)	0.68 dB	288.00 deg	-4.56 dB	20.00 deg	142.32 deg	5.24 dB	-1.39 dB	1.52	----	----	----	----
869(MHz)	0.41 dB	290.00 deg	-5.30 dB	20.00 deg	138.89 deg	5.71 dB	-1.74 dB	1.65	----	----	----	----
880(MHz)	-0.19 dB	288.00 deg	-5.85 dB	18.00 deg	140.53 deg	5.66 dB	-2.32 dB	1.65	----	----	----	----
894(MHz)	-0.45 dB	288.00 deg	-5.78 dB	16.00 deg	140.74 deg	5.33 dB	-2.50 dB	1.61	----	----	----	----
920(MHz)	-1.16 dB	294.00 deg	-5.86 dB	14.00 deg	131.75 deg	4.71 dB	-3.28 dB	1.49	----	----	----	----
945(MHz)	-2.73 dB	300.00 deg	-7.16 dB	12.00 deg	125.54 deg	4.42 dB	-4.92 dB	1.38	----	----	----	----
960(MHz)	-3.24 dB	306.00 deg	-7.58 dB	12.00 deg	97.32 deg	4.34 dB	-5.54 dB	1.28	----	----	----	----
1710(MHz)	-1.06 dB	222.00 deg	-6.45 dB	100.00 deg	129.72 deg	5.40 dB	-2.94 dB	1.20	----	----	----	----
1800(MHz)	-0.19 dB	228.00 deg	-5.95 dB	96.00 deg	56.24 deg	5.77 dB	-2.81 dB	1.30	----	----	----	----
1840(MHz)	-0.10 dB	230.00 deg	-5.52 dB	316.00 deg	63.79 deg	5.42 dB	-2.80 dB	1.48	----	----	----	----
1880(MHz)	0.01 dB	232.00 deg	-6.94 dB	320.00 deg	148.70 deg	6.95 dB	-2.96 dB	1.86	----	----	----	----
1920(MHz)	0.14 dB	234.00 deg	-7.47 dB	326.00 deg	155.80 deg	7.60 dB	-2.87 dB	2.24	----	----	----	----
1960(MHz)	-0.25 dB	234.00 deg	-8.41 dB	330.00 deg	164.54 deg	8.16 dB	-3.32 dB	2.51	----	----	----	----
1990(MHz)	-0.35 dB	238.00 deg	-9.56 dB	332.00 deg	172.99 deg	9.20 dB	-3.62 dB	2.77	----	----	----	----
2110(MHz)	-1.77 dB	250.00 deg	-14.94 dB	338.00 deg	76.72 deg	13.17 dB	-5.51 dB	3.77	----	----	----	----
2140(MHz)	-2.11 dB	252.00 deg	-15.00 dB	336.00 deg	74.39 deg	12.89 dB	-6.10 dB	3.62	----	----	----	----
2170(MHz)	-2.99 dB	254.00 deg	-16.38 dB	338.00 deg	75.52 deg	13.39 dB	-6.98 dB	3.68	----	----	----	----

- ▲ Ref channel
- ▲ PulseDAnt(band1)+TycoMainAnt(1513582-1revB)50OhmLoaded+GS2
- ▲ DataCorrected
- ▲ NF to FF transform
- ▲ Q1Q2
- ▲ Accum(n,m)
- ▲ Accum cuts
- ▲ Power info
- ▲ PnPm
- ▲ Phi=0.00deg
- ▲ Phi=0.00deg

**Gain . dB**



Average

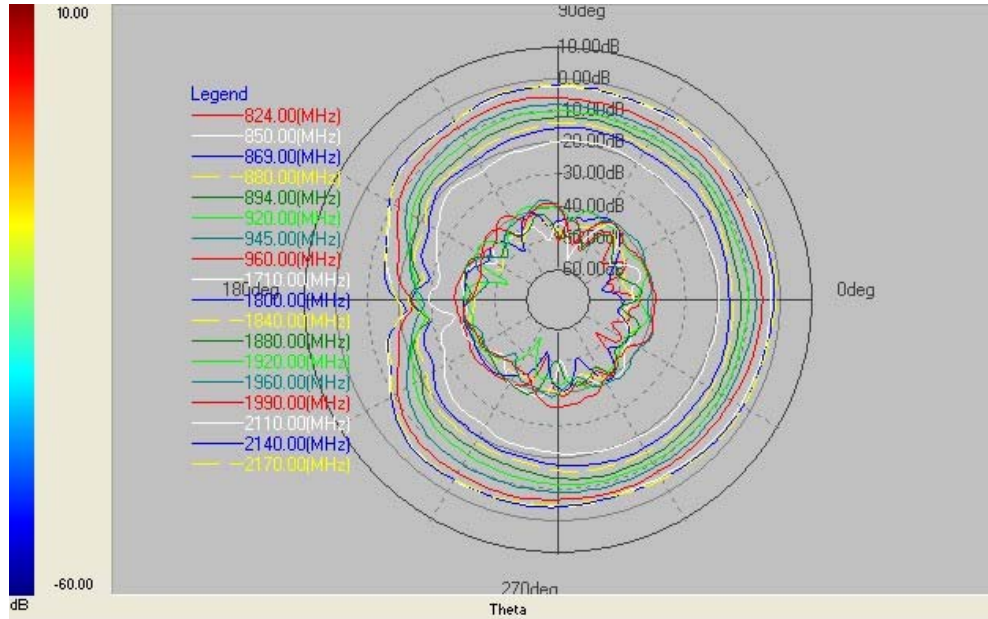
- 1:-43.48 dB
- 2:0 dB
- 3:0 dB
- 4:-43.48 dB

Layer	Max value	Position	Min value	Position	BeamWidth	[Unknown message 1098]	Average	Standard deviation	Marker 1 pos	Marker 1 value	Marker 2 pos	Marker 2 value
824(MHz)	-36.02 dB	-170.00 deg	-57.61 dB	-38.00 deg	----	21.59 dB	-43.48 dB	4.61	----	----	----	----
850(MHz)	-36.67 dB	166.00 deg	-58.39 dB	-8.00 deg	19.76 deg	21.72 dB	-43.72 dB	3.69	----	----	----	----
869(MHz)	-38.43 dB	-168.00 deg	-58.10 dB	-78.00 deg	----	19.67 dB	-45.53 dB	3.82	----	----	----	----
880(MHz)	-41.02 dB	-168.00 deg	-54.28 dB	98.00 deg	----	13.26 dB	-46.42 dB	2.72	----	----	----	----
894(MHz)	-38.52 dB	168.00 deg	-54.63 dB	-80.00 deg	22.31 deg	16.11 dB	-44.60 dB	3.39	----	----	----	----
920(MHz)	-39.85 dB	-172.00 deg	-56.50 dB	-110.00 deg	----	16.66 dB	-44.21 dB	3.30	----	----	----	----
945(MHz)	-38.97 dB	76.00 deg	-51.98 dB	-104.00 deg	55.24 deg	13.01 dB	-42.44 dB	2.58	----	----	----	----
960(MHz)	-38.93 dB	168.00 deg	-53.09 dB	-94.00 deg	20.17 deg	14.16 dB	-42.86 dB	3.06	----	----	----	----
1710(MHz)	-17.77 dB	-52.00 deg	-40.11 dB	162.00 deg	89.96 deg	22.35 dB	-22.47 dB	5.07	----	----	----	----
1800(MHz)	-14.53 dB	-58.00 deg	-37.62 dB	164.00 deg	105.22 deg	23.10 dB	-19.13 dB	5.62	----	----	----	----
1840(MHz)	-13.61 dB	-62.00 deg	-35.11 dB	130.00 deg	117.90 deg	21.51 dB	-17.80 dB	5.55	----	----	----	----
1880(MHz)	-11.92 dB	-66.00 deg	-39.87 dB	-172.00 deg	127.02 deg	27.95 dB	-16.03 dB	5.95	----	----	----	----
1920(MHz)	-10.01 dB	2.00 deg	-40.53 dB	-174.00 deg	130.82 deg	30.52 dB	-14.32 dB	6.93	----	----	----	----

1960(MHz)	-7.61 dB	-2.00 deg	-32.40 dB	-174.00 deg	128.72 deg	24.78 dB	-12.28 dB	7.90	----	----	----	----
1990(MHz)	-5.25 dB	-10.00 deg	-32.51 dB	-172.00 deg	128.05 deg	27.25 dB	-10.11 dB	7.57	----	----	----	----
2110(MHz)	-1.91 dB	24.00 deg	-22.29 dB	-176.00 deg	89.14 deg	20.39 dB	-6.19 dB	5.20	----	----	----	----
2140(MHz)	-1.88 dB	16.00 deg	-26.96 dB	-176.00 deg	156.04 deg	25.08 dB	-5.65 dB	5.46	----	----	----	----
2170(MHz)	-1.35 dB	-4.00 deg	-27.52 dB	-176.00 deg	158.28 deg	26.17 dB	-5.38 dB	5.65	----	----	----	----

▲ Phi=90.00deg  
▲ Phi=90.00deg

**Gain . dB**



Average

- 1:-42.01 dB
- 2:0 dB
- 3:0 dB
- 4:-42.01 dB

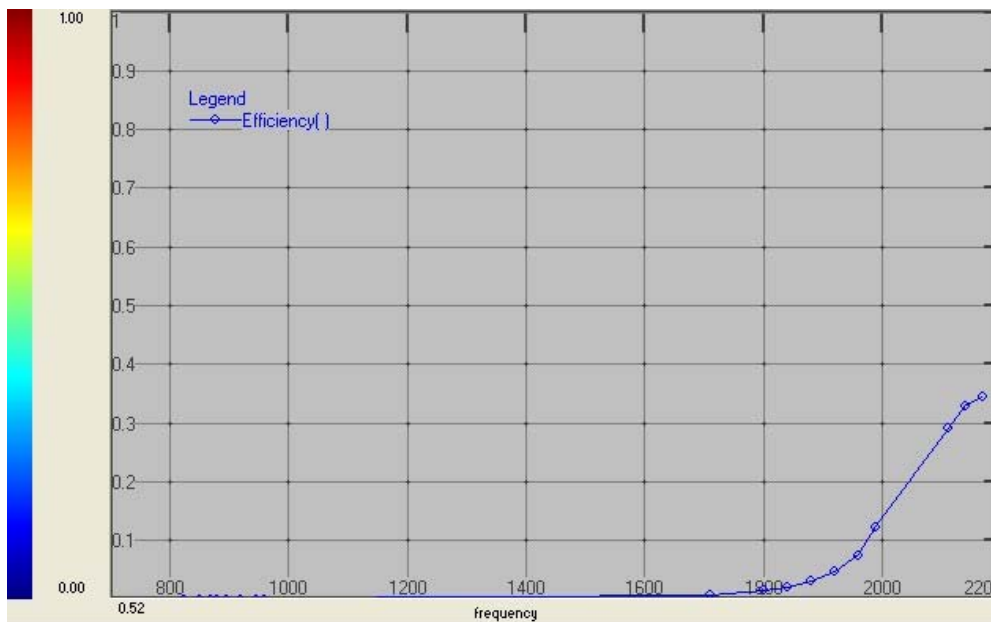
Layer	Max value	Position	Min value	Position	BeamWidth	[Unknown message 1098]	Average	Standard deviation	Marker 1 pos	Marker 1 value	Marker 2 pos	Marker 2 value
824(MHz)	-37.37 dB	178.00 deg	-54.18 dB	-42.00 deg	----	16.81 dB	-42.01 dB	4.54	----	----	----	----
850(MHz)	-38.47 dB	-162.00 deg	-57.35 dB	76.00 deg	----	18.88 dB	-42.71 dB	3.84	----	----	----	----
869(MHz)	-39.39 dB	-136.00 deg	-55.62 dB	12.00 deg	----	16.23 dB	-43.05 dB	4.13	----	----	----	----
880(MHz)	-40.44 dB	-56.00 deg	-50.39 dB	84.00 deg	22.54 deg	9.96 dB	-44.10 dB	2.48	----	----	----	----
894(MHz)	-38.62 dB	-110.00 deg	-52.13 dB	64.00 deg	32.59 deg	13.50 dB	-43.28 dB	3.32	----	----	----	----
920(MHz)	-39.18 dB	110.00 deg	-56.90 dB	-114.00 deg	38.13 deg	17.71 dB	-42.37 dB	2.89	----	----	----	----
945(MHz)	-38.40 dB	-20.00 deg	-48.99 dB	140.00 deg	61.98 deg	10.59 dB	-41.30 dB	2.65	----	----	----	----
960(MHz)	-36.00 dB	-92.00 deg	-51.95 dB	76.00 deg	37.80 deg	15.95 dB	-40.81 dB	2.85	----	----	----	----
1710(MHz)	-19.11 dB	30.00 deg	-37.15 dB	-170.00 deg	209.50 deg	18.04 dB	-21.42 dB	4.21	----	----	----	----
1800(MHz)	-15.08 dB	-24.00 deg	-29.29 dB	170.00 deg	203.82 deg	14.21 dB	-17.55 dB	3.83	----	----	----	----
1840(MHz)	-13.57 dB	38.00 deg	-28.39 dB	-172.00 deg	209.37 deg	14.82 dB	-16.13 dB	3.66	----	----	----	----

1880(MHz)	-11.61 dB	38.00 deg	-28.93 dB	-172.00 deg	213.41 deg	17.32 dB	-14.11 dB	4.02	----	----	----	----
1920(MHz)	-10.01 dB	42.00 deg	-28.19 dB	-174.00 deg	234.85 deg	18.18 dB	-12.15 dB	4.60	----	----	----	----
1960(MHz)	-7.62 dB	0.00 deg	-27.77 dB	-178.00 deg	256.83 deg	20.14 dB	-9.97 dB	5.09	----	----	----	----
1990(MHz)	-5.70 dB	2.00 deg	-24.33 dB	-178.00 deg	278.38 deg	18.63 dB	-7.59 dB	4.56	----	----	----	----
2110(MHz)	-2.40 dB	50.00 deg	-21.96 dB	-176.00 deg	197.81 deg	19.56 dB	-4.65 dB	4.49	----	----	----	----
2140(MHz)	-1.84 dB	6.00 deg	-22.18 dB	-176.00 deg	179.53 deg	20.34 dB	-4.23 dB	4.57	----	----	----	----
2170(MHz)	-1.15 dB	8.00 deg	-20.85 dB	-176.00 deg	171.46 deg	19.70 dB	-4.08 dB	4.75	----	----	----	----

▲ NF to FF transform Efficiency

▲ NF to FF transform Efficiency

**Efficiency**



Average

- 1:0.07159
- 2:0
- 3:0
- 4:0.07159

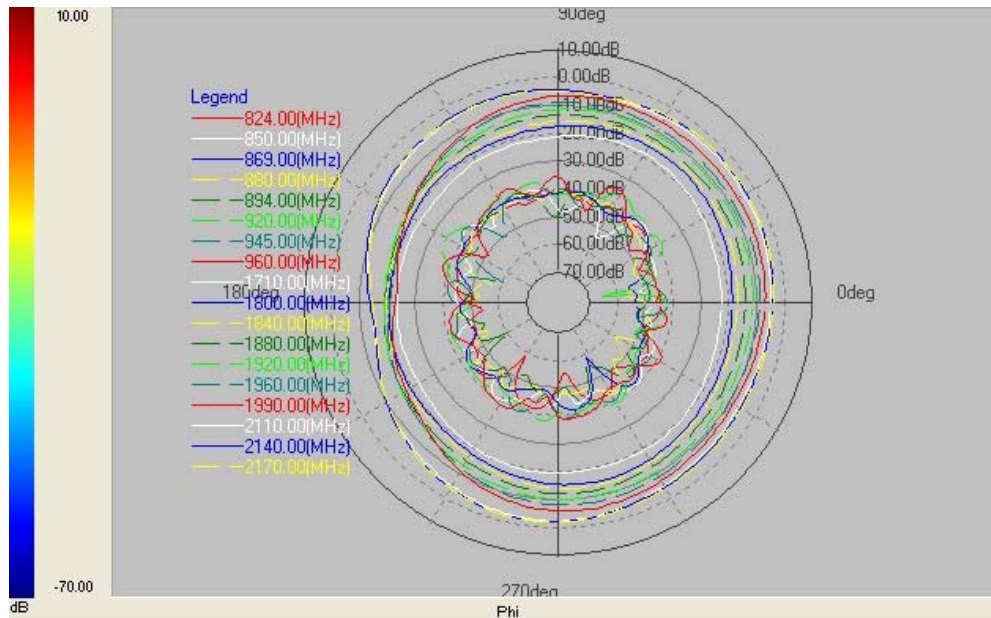
Layer	Max value	Position	Min value	Position	BeamWidth	[Unknown message 1098]	Average	Standard deviation	Marker 1 pos	Marker 1 value	Marker 2 pos	Marker 2 value
Efficiency	0.34	2170.00 MHz	0.00	880.00 MHz	----	0.34	0.07	0.12	----	----	----	----

▲ NF to FF transform Expanded

▲ Theta=-90.00deg

▲ Theta=-90.00deg

**Gain . dB**



Average

- 1:-44.41 dB
- 2:0 dB
- 3:0 dB
- 4:-44.41 dB

Layer	Max value	Position	Min value	Position	BeamWidth	[Unknown message 1098]	Average	Standard deviation	Marker 1 pos	Marker 1 value	Marker 2 pos	Marker 2 value
824(MHz)	-40.36 dB	88.00 deg	-58.46 dB	238.00 deg	25.15 deg	18.10 dB	-44.41 dB	3.37	----	----	----	----
850(MHz)	-39.00 dB	142.00 deg	-54.22 dB	60.00 deg	16.01 deg	15.23 dB	-43.66 dB	3.08	----	----	----	----
869(MHz)	-40.31 dB	42.00 deg	-59.01 dB	298.00 deg	23.88 deg	18.70 dB	-44.00 dB	3.93	----	----	----	----
880(MHz)	-40.34 dB	112.00 deg	-57.44 dB	328.00 deg	43.64 deg	17.10 dB	-45.15 dB	4.02	----	----	----	----
894(MHz)	-39.46 dB	112.00 deg	-61.57 dB	212.00 deg	30.49 deg	22.11 dB	-45.82 dB	3.87	----	----	----	----
920(MHz)	-35.17 dB	150.00 deg	-66.23 dB	8.00 deg	18.91 deg	31.05 dB	-40.71 dB	3.95	----	----	----	----
945(MHz)	-38.54 dB	142.00 deg	-60.87 dB	160.00 deg	11.47 deg	22.33 dB	-43.45 dB	3.44	----	----	----	----
960(MHz)	-34.93 dB	62.00 deg	-51.30 dB	146.00 deg	11.53 deg	16.37 dB	-41.38 dB	3.61	----	----	----	----
1710(MHz)	-19.40 dB	58.00 deg	-24.01 dB	142.00 deg	88.36 deg	4.61 dB	-21.51 dB	1.42	----	----	----	----
1800(MHz)	-15.47 dB	284.00 deg	-21.15 dB	164.00 deg	102.86 deg	5.68 dB	-17.96 dB	1.65	----	----	----	----
1840(MHz)	-14.12 dB	280.00 deg	-19.94 dB	166.00 deg	----	5.82 dB	-16.57 dB	1.78	----	----	----	----
1880(MHz)	-12.40 dB	280.00 deg	-19.62 dB	166.00 deg	----	7.22 dB	-14.64 dB	2.10	----	----	----	----
1920(MHz)	-10.42 dB	280.00 deg	-19.25 dB	172.00 deg	----	8.84 dB	-12.66 dB	2.83	----	----	----	----
1960(MHz)	-8.41 dB	280.00 deg	-21.38 dB	172.00 deg	----	12.97 dB	-10.73 dB	4.14	----	----	----	----
1990(MHz)	-6.24 dB	280.00 deg	-23.18 dB	176.00 deg	----	16.94 dB	-8.82 dB	5.44	----	----	----	----
2110(MHz)	-2.75 dB	266.00 deg	-14.60 dB	188.00 deg	73.92 deg	11.85 dB	-5.51 dB	2.96	----	----	----	----
2140(MHz)	-2.33 dB	262.00 deg	-14.73 dB	188.00 deg	89.17 deg	12.39 dB	-4.86 dB	3.15	----	----	----	----
2170(MHz)	-2.21 dB	262.00 deg	-15.22 dB	188.00 deg	----	13.01 dB	-4.82 dB	3.45	----	----	----	----