



TE P/N 2118235-1 6 Element MIMO WiFi Antenna

November 16, 2011

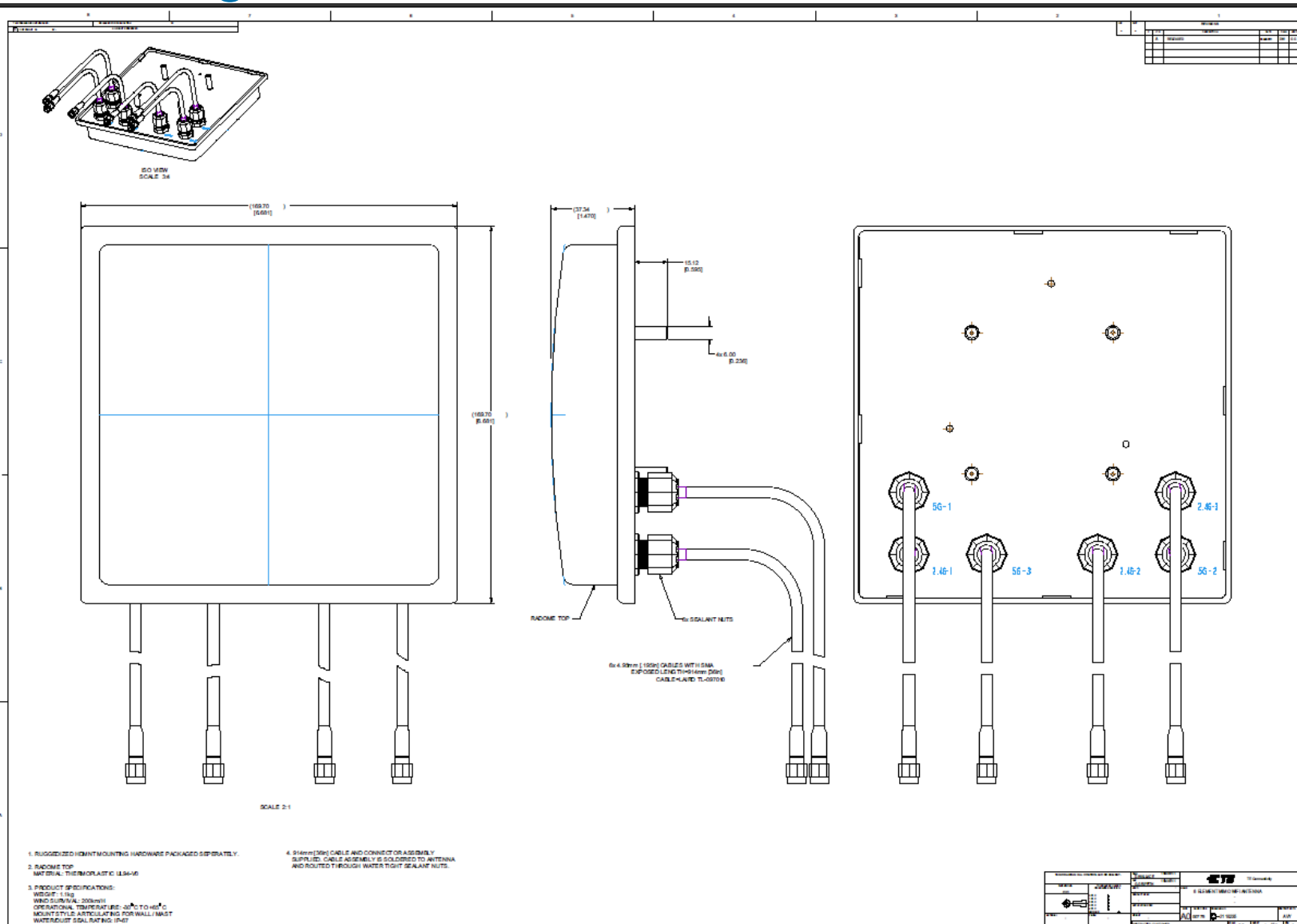
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Specifications

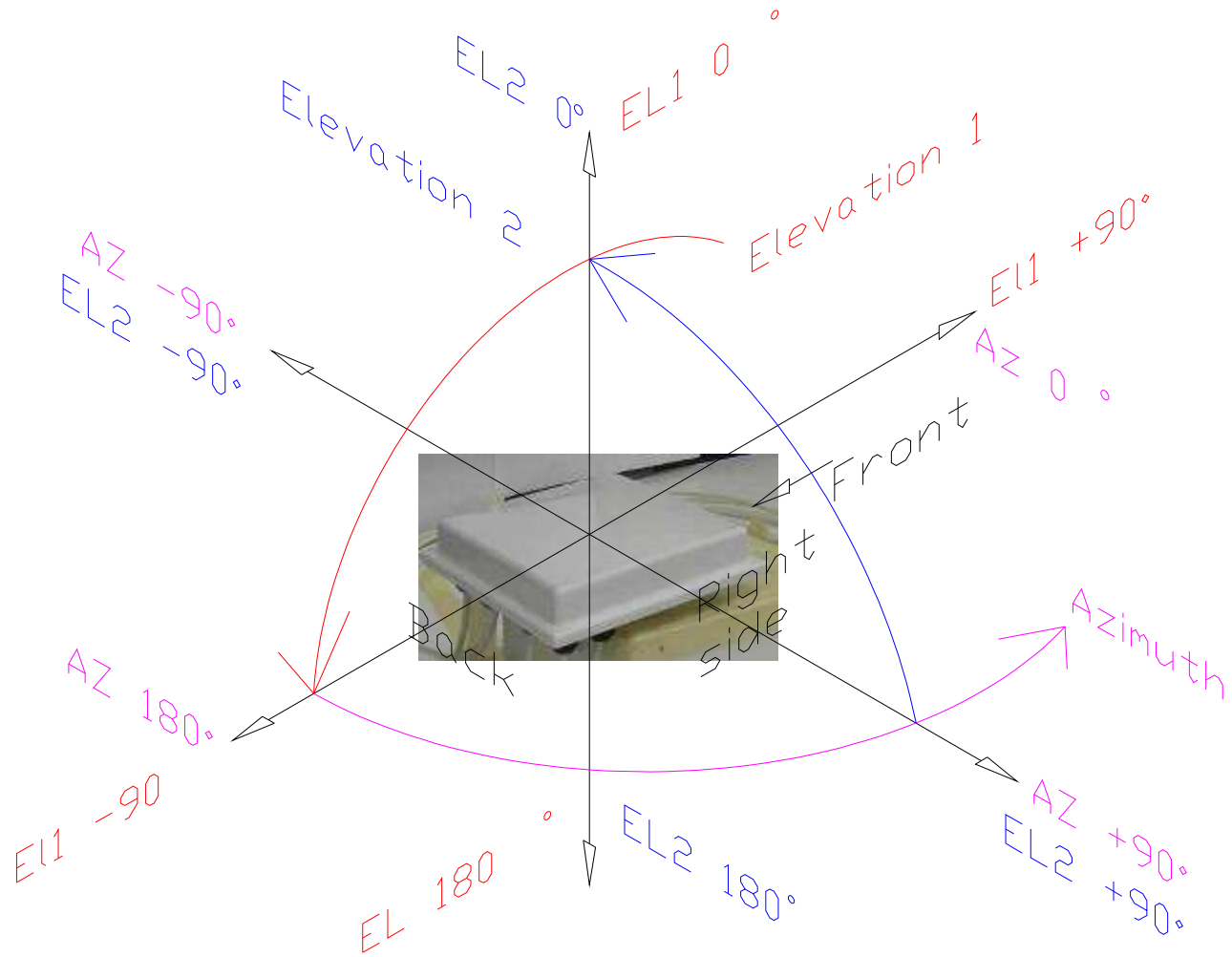
- Frequency: 2.4-2.485 and 4.9-5.9GHz
- Gain: <6dBi Max
- VSWR: <2.5:1
- Polarization: Linear
- Power: 2 watts Max
- Impedance: 50 Ohms (typical)
- Cables: 6X 4.52mm diam X 0.9 m
- Connectors: 6X RP-SMA
- Weight: 680 grams
- Temperature: -30°C to +65°C operating and storage

Drawing

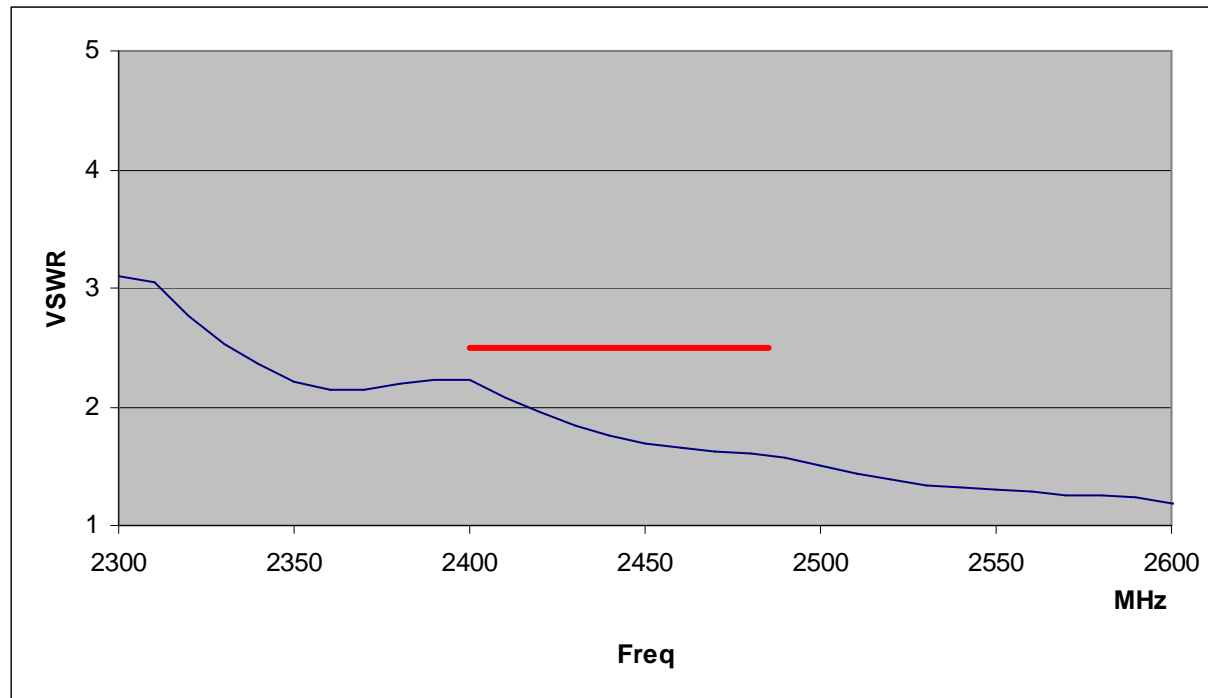


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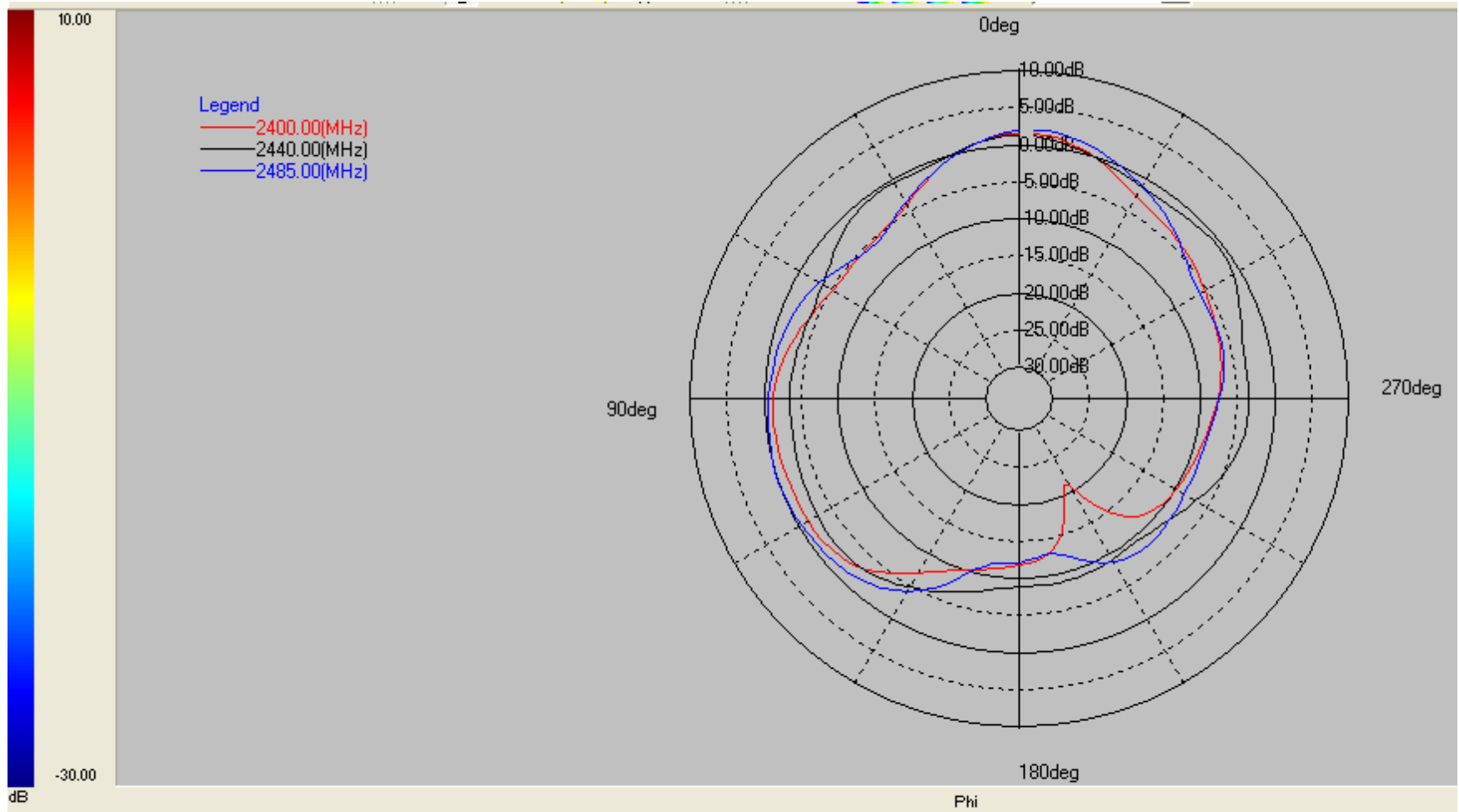
Test Orientation



2.4G-1 VSWR



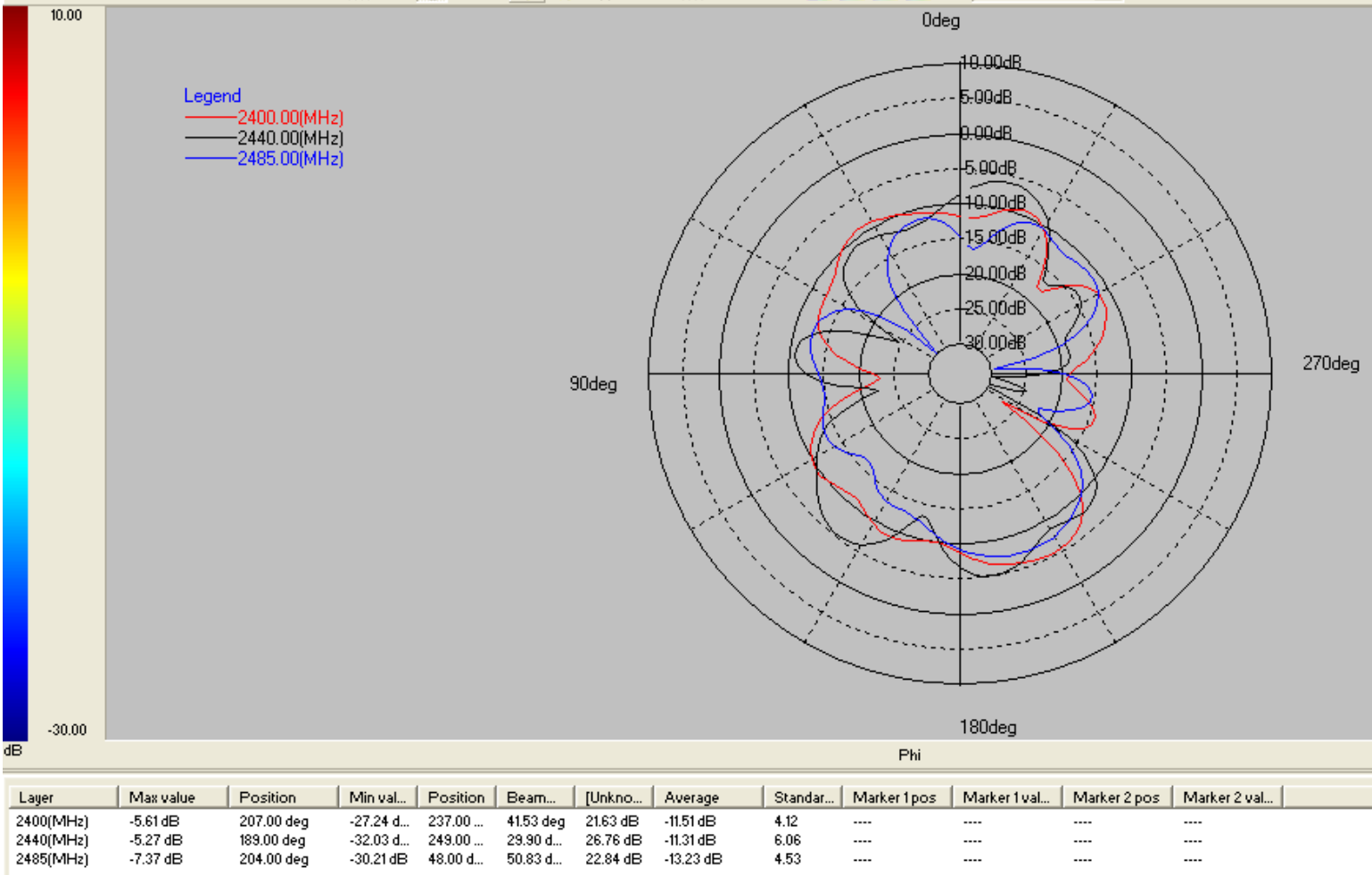
2.4G-1 Azimuth Vertical Polarization



Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	1.31 dB	0.00 deg	-21.34 dB	207.00 ...	---	22.65 dB	-4.85 dB	5.04	---	---	---	---
2440(MHz)	1.09 dB	0.00 deg	-9.56 dB	216.00 d...	---	10.65 dB	-3.36 dB	3.06	---	---	---	---
2485(MHz)	1.81 dB	354.00 deg	-13.10 dB	189.00 d...	---	14.91 dB	-3.85 dB	4.14	---	---	---	---

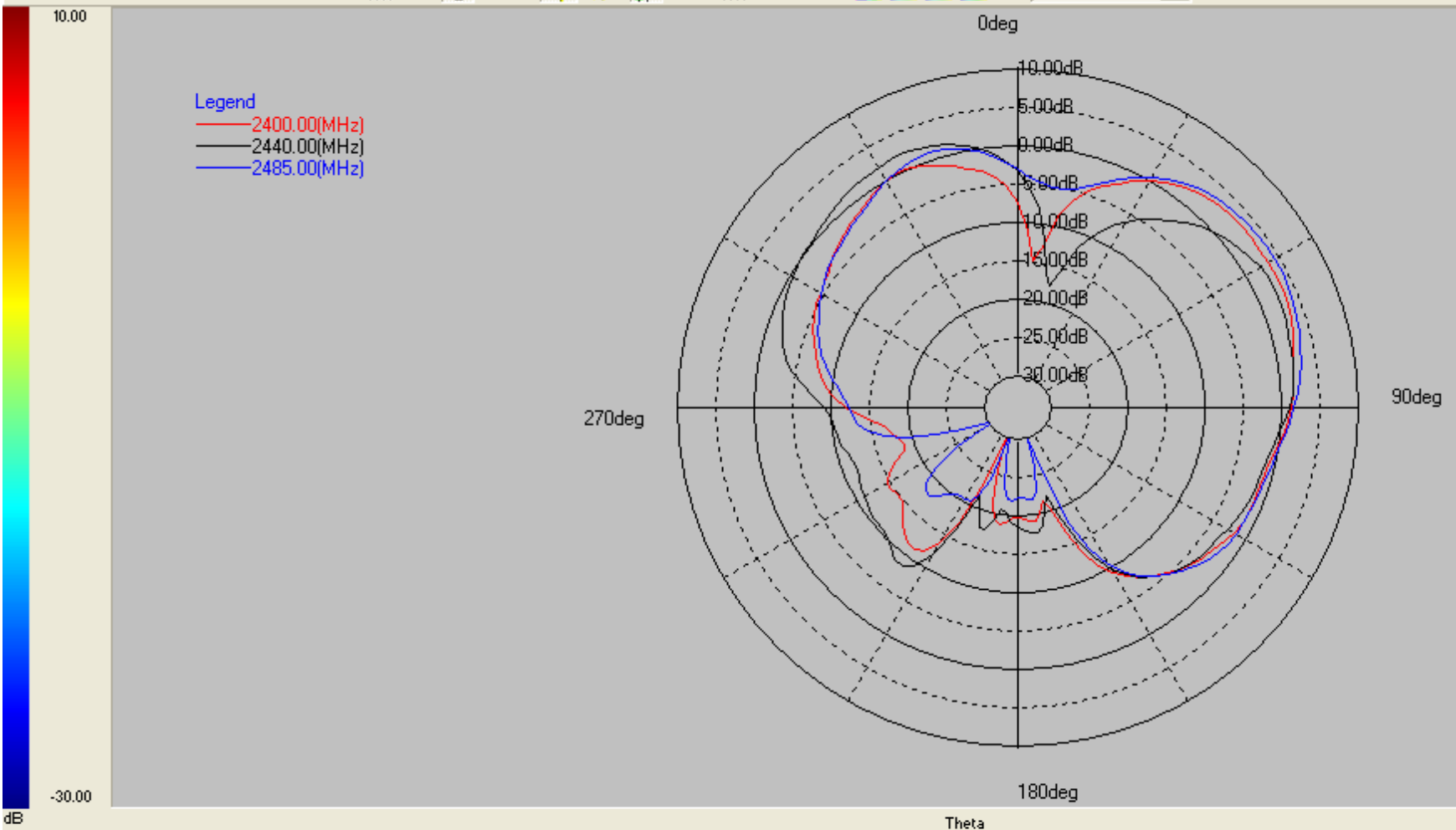


2.4G-1 Azimuth Horizontal Polarization



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2.4G-1 Elevation 1 Vertical Polarization

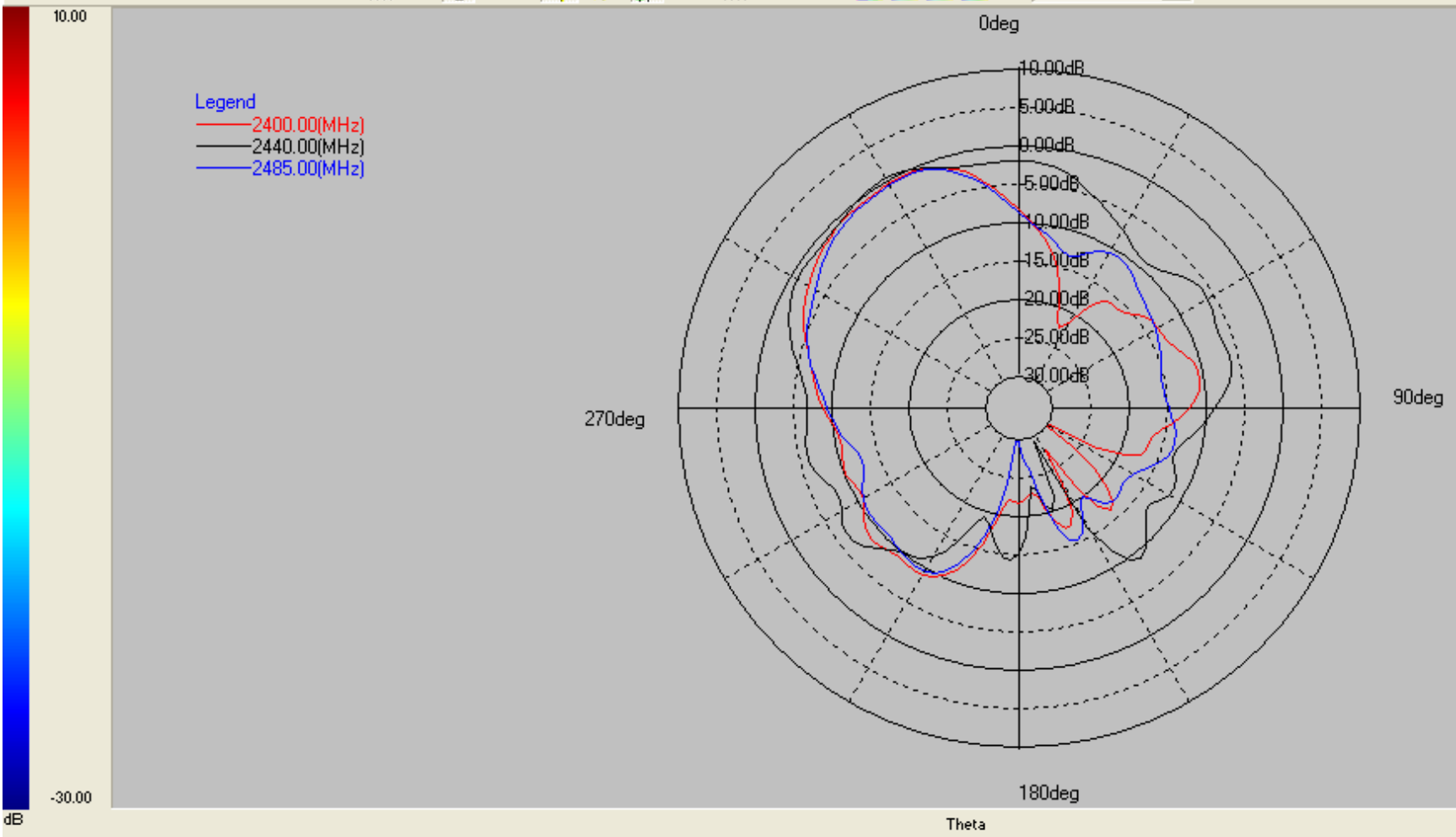


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	3.50 dB	63.00 deg	-33.73 d...	-159.00 ...	63.12 deg	37.24 dB	-4.30 dB	8.30	----	----	----	----
2440(MHz)	2.64 dB	66.00 deg	-22.25 d...	162.00 d...	50.46 d...	24.90 dB	-3.92 dB	7.34	----	----	----	----
2485(MHz)	4.45 dB	60.00 deg	-41.91 dB	162.00 d...	57.71 deg	46.36 dB	-3.89 dB	10.99	----	----	----	----



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2.4G-1 Elevation 1 Horizontal Polarization

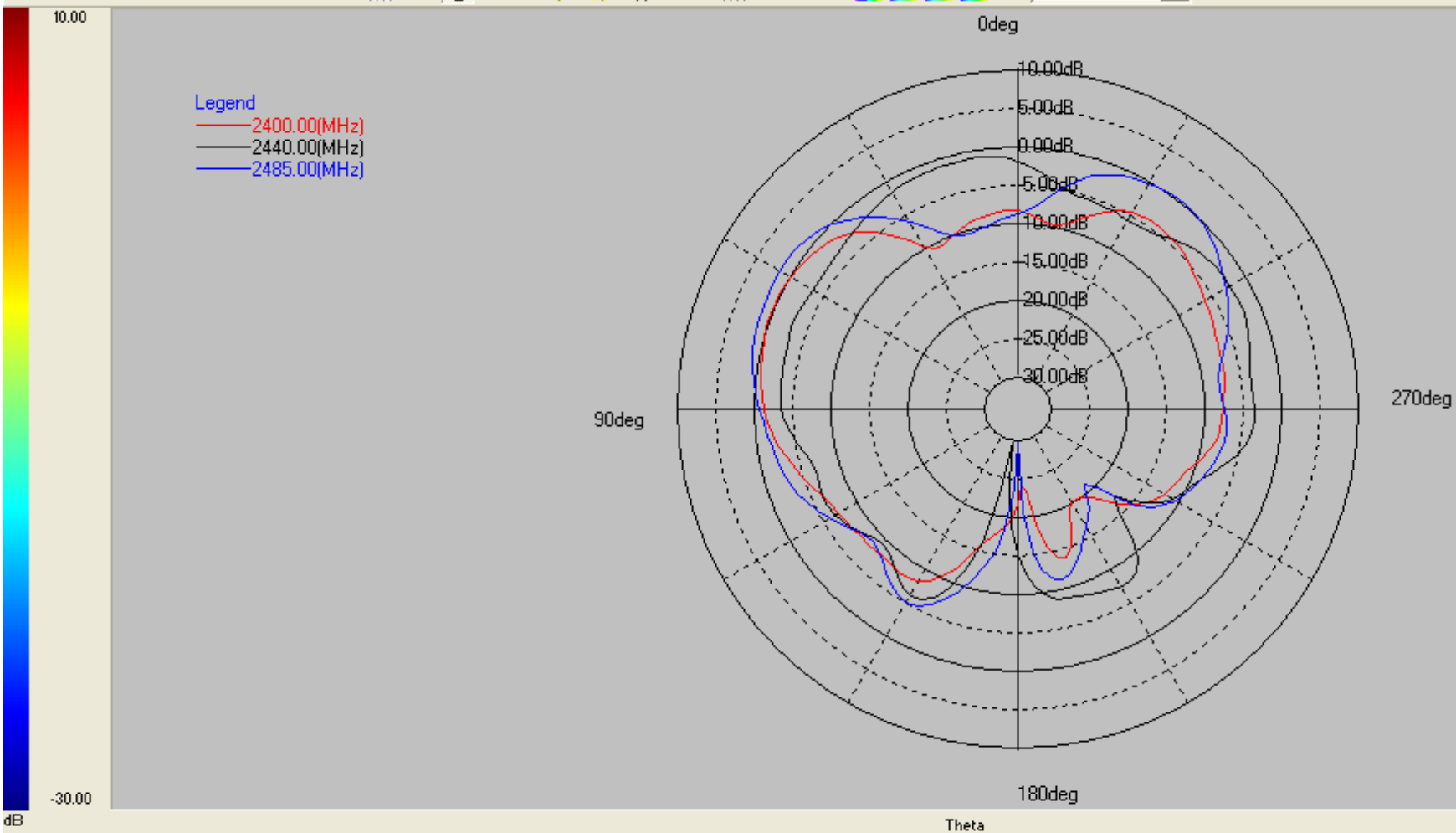


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-0.49 dB	-27.00 deg	-32.46 d...	123.00 d...	54.40 d...	31.97 dB	-9.79 dB	7.22	----	----	----	----
2440(MHz)	0.32 dB	-30.00 deg	-29.68 d...	156.00 d...	79.90 d...	30.00 dB	-6.70 dB	6.21	----	----	----	----
2485(MHz)	-0.65 dB	-27.00 deg	-43.49 d...	-177.00 ...	47.96 d...	42.84 dB	-9.91 dB	7.24	----	----	----	----



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2.4G-1 Elevation 2 Vertical Polarization

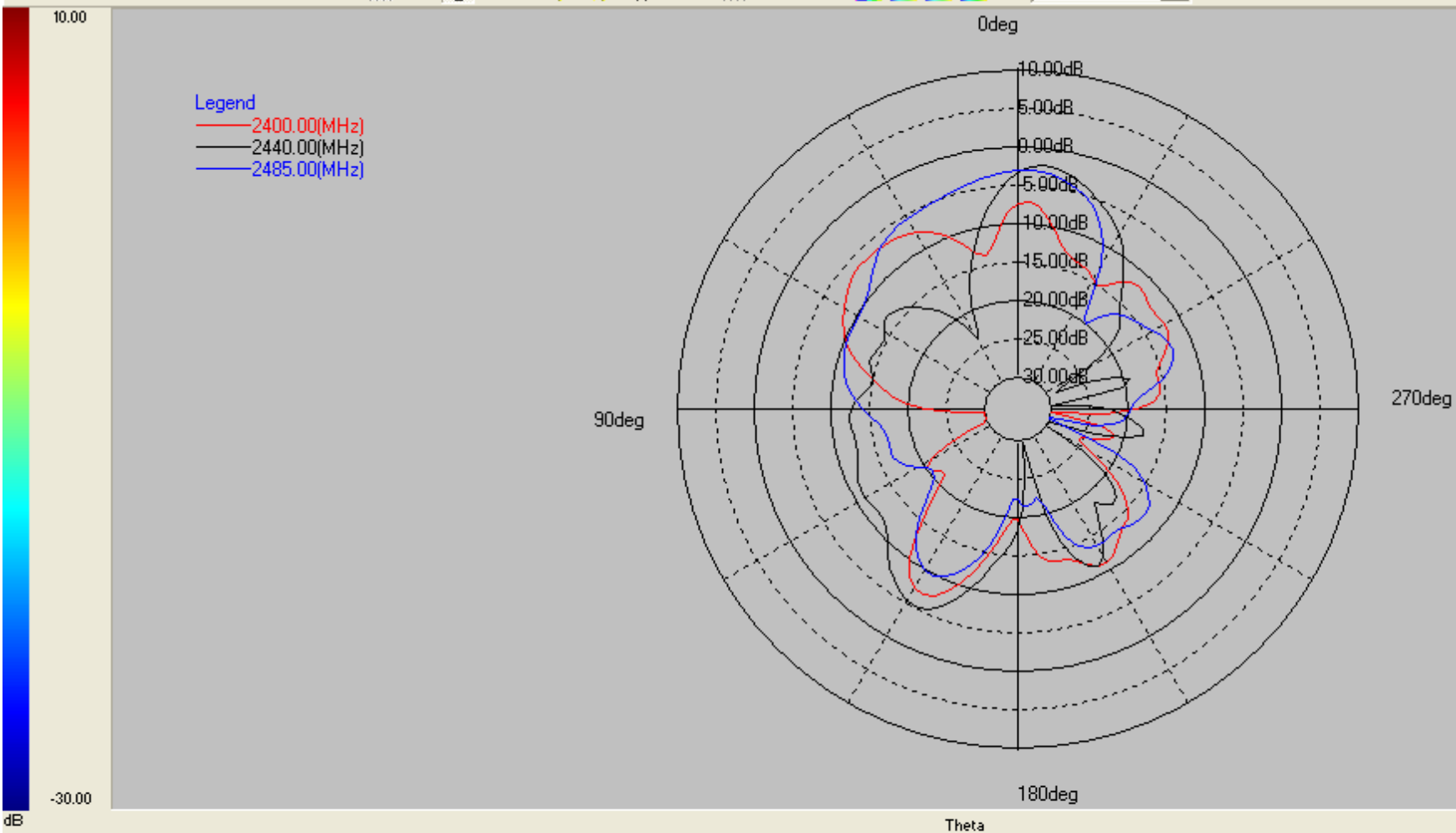


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	0.21 dB	69.00 deg	-24.36 d...	-177.00 ...	55.43 d...	24.57 dB	-7.17 dB	5.87	----	----	----	----
2440(MHz)	-1.13 dB	12.00 deg	-36.21 dB	171.00 d...	102.30 d...	35.08 dB	-5.47 dB	5.26	----	----	----	----
2485(MHz)	1.49 dB	60.00 deg	-32.67 d...	-180.00 ...	55.02 d...	34.17 dB	-5.15 dB	6.73	----	----	----	----



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2.4G-1 Elevation 2 Horizontal Polarization

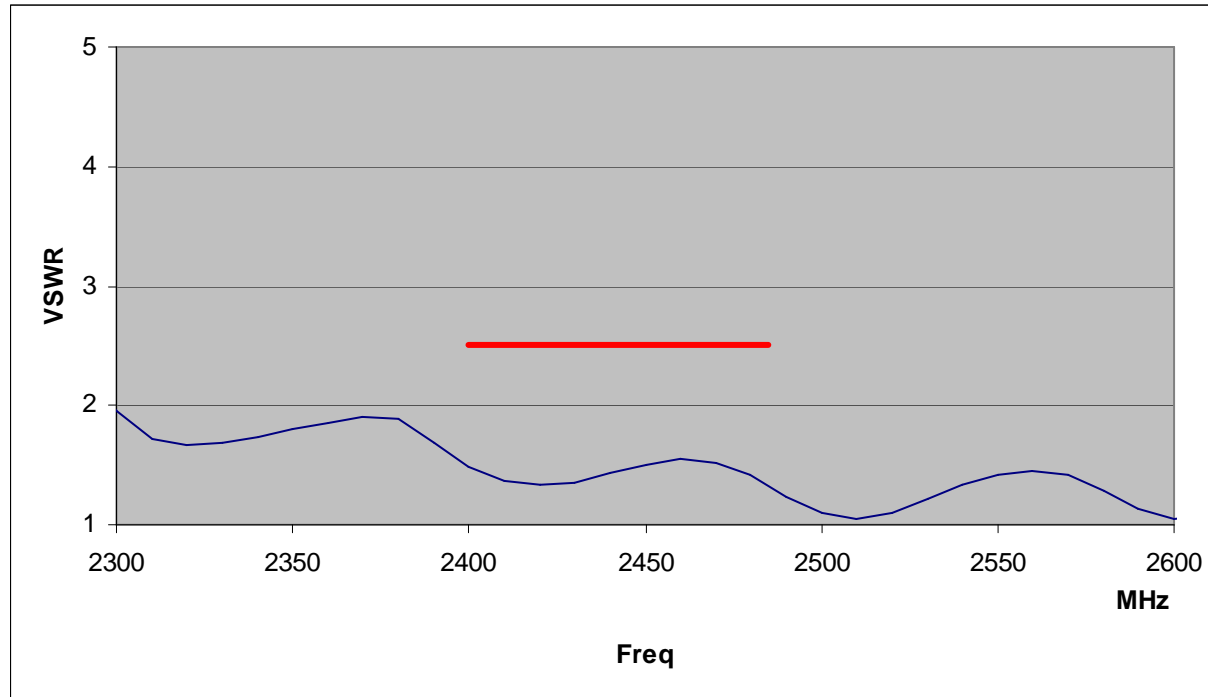


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-6.46 dB	48.00 deg	-38.55 d...	99.00 d...	42.33 d...	32.08 dB	-13.34 dB	6.72	----	----	----	----
2440(MHz)	-2.44 dB	-6.00 deg	-35.06 d...	-117.00 ...	26.57 d...	32.62 dB	-12.69 dB	7.14	----	----	----	----
2485(MHz)	-3.24 dB	-3.00 deg	-42.70 d...	-108.00 ...	57.78 d...	39.46 dB	-11.86 dB	6.32	----	----	----	----

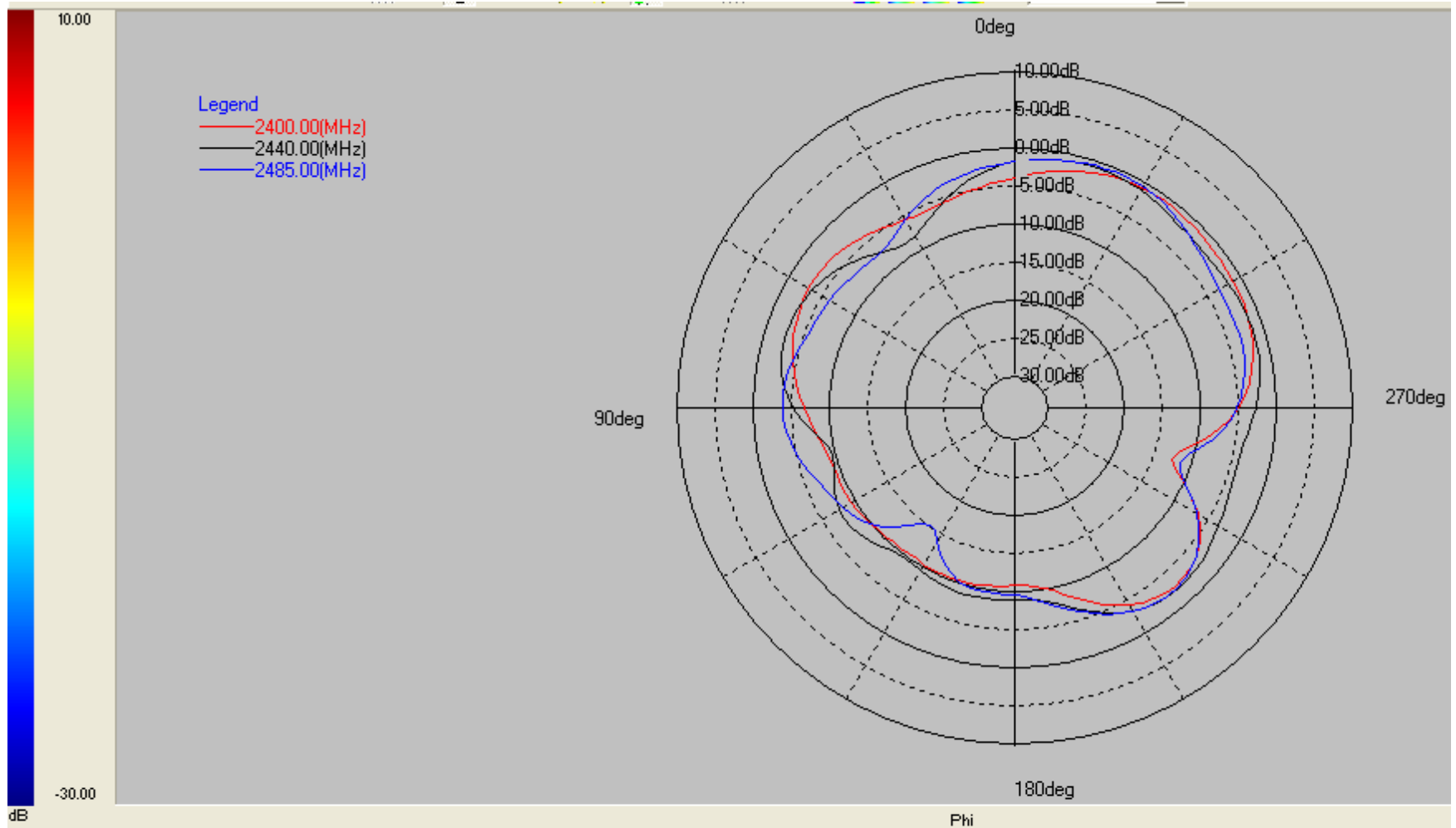


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2.4G-2 VSWR



2.4G-2 Azimuth Vertical Polarization

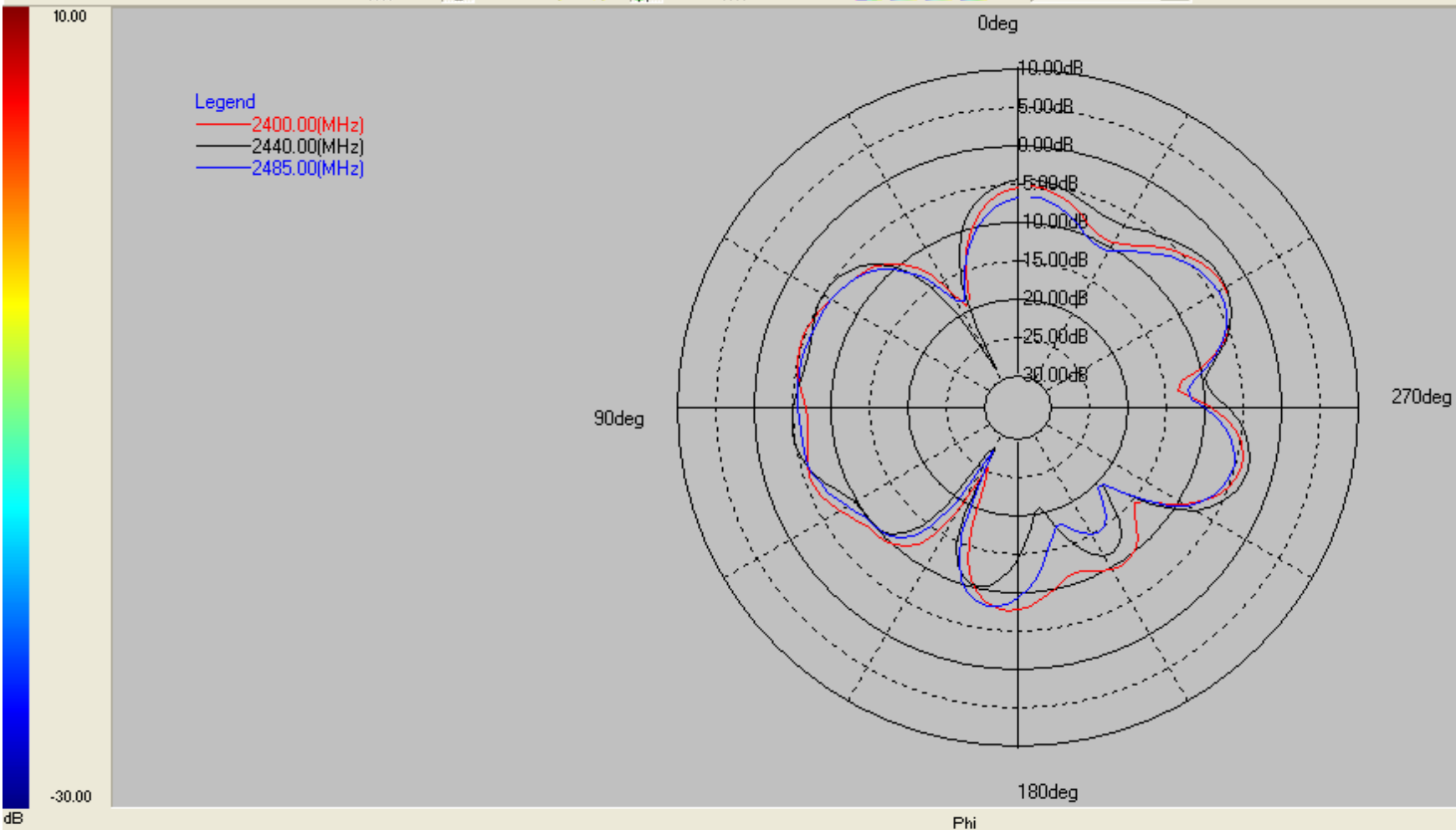


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-0.79 dB	324.00 deg	-12.56 dB	252.00 ...	----	11.77 dB	-5.18 dB	3.49	----	----	----	----
2440(MHz)	-0.96 dB	342.00 deg	-9.79 dB	144.00 d...	----	8.83 dB	-4.41 dB	2.97	----	----	----	----
2485(MHz)	-0.61 dB	336.00 deg	-15.33 dB	144.00 d...	----	14.73 dB	-5.12 dB	3.53	----	----	----	----



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2.4G-2 Azimuth Horizontal Polarization

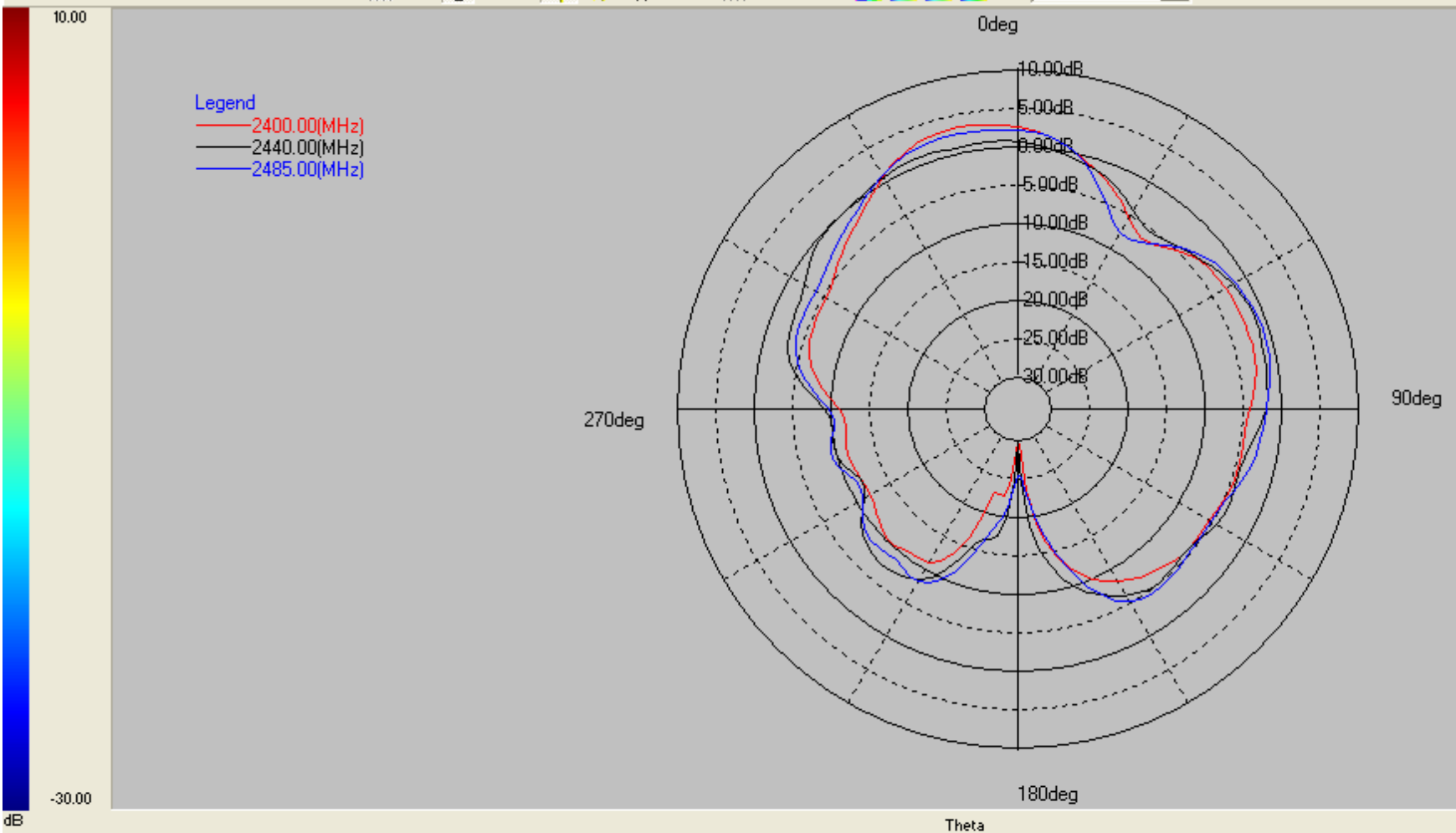


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-3.17 dB	300.00 deg	-25.65 d...	153.00 d...	29.84 d...	22.48 dB	-8.07 dB	4.03	----	----	----	----
2440(MHz)	-2.87 dB	303.00 deg	-28.50 d...	30.00 d...	35.80 d...	25.63 dB	-8.02 dB	5.65	----	----	----	----
2485(MHz)	-4.05 dB	300.00 deg	-27.77 d...	150.00 d...	31.11 deg	23.71 dB	-8.99 dB	4.58	----	----	----	----



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2.4G-2 Elevation 1 Vertical Polarization

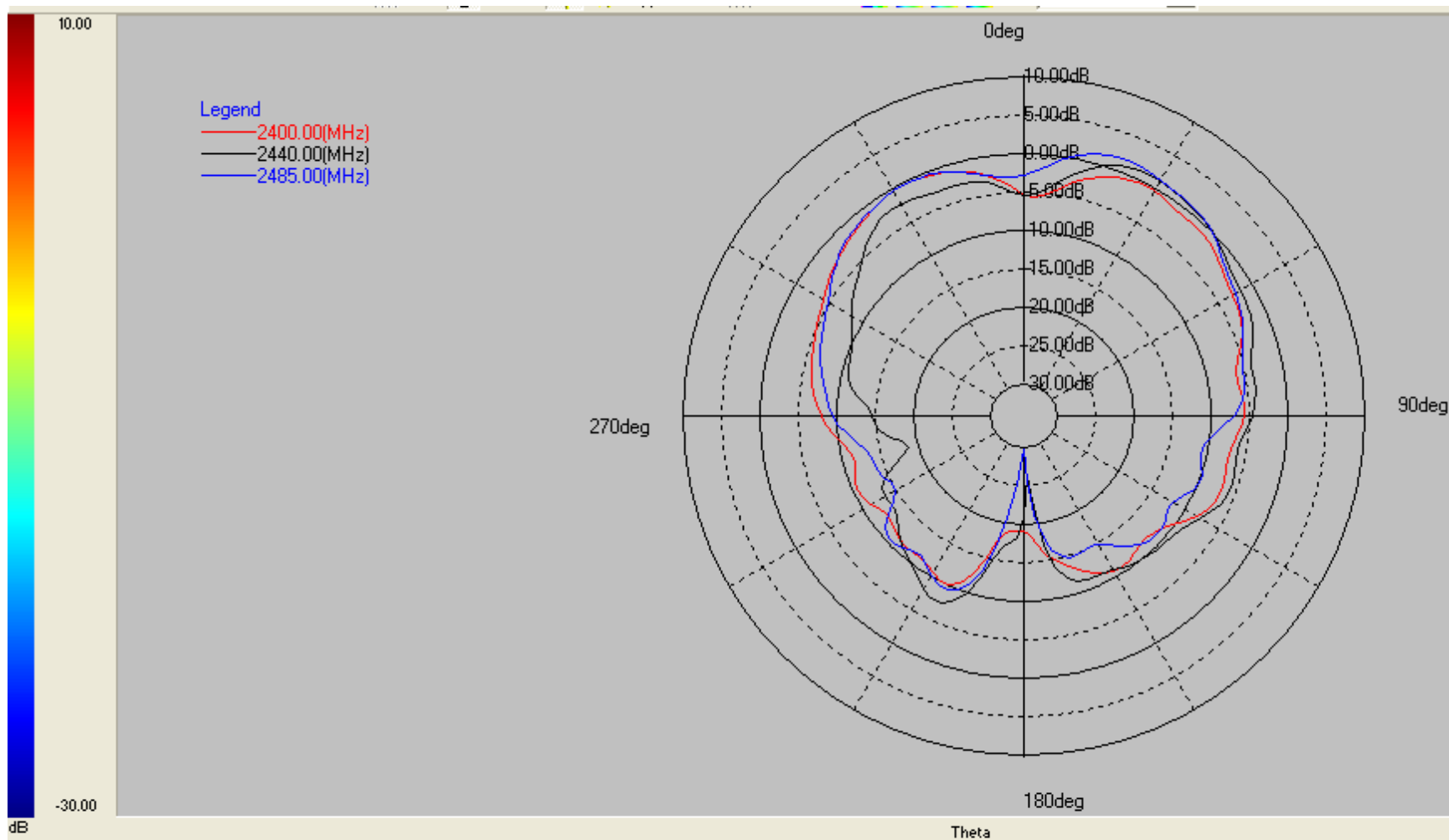


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	3.18 dB	-12.00 deg	-33.17 dB	-180.00 ...	43.54 d...	36.36 dB	-5.15 dB	7.38	----	----	----	----
2440(MHz)	0.97 dB	-24.00 deg	-40.61 dB	-180.00 ...	80.58 d...	41.59 dB	-4.36 dB	7.00	----	----	----	----
2485(MHz)	2.34 dB	-15.00 deg	-25.66 d...	-180.00 ...	51.36 deg	28.00 dB	-4.36 dB	6.34	----	----	----	----



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2.4G-2 Elevation 1 Horizontal Polarization

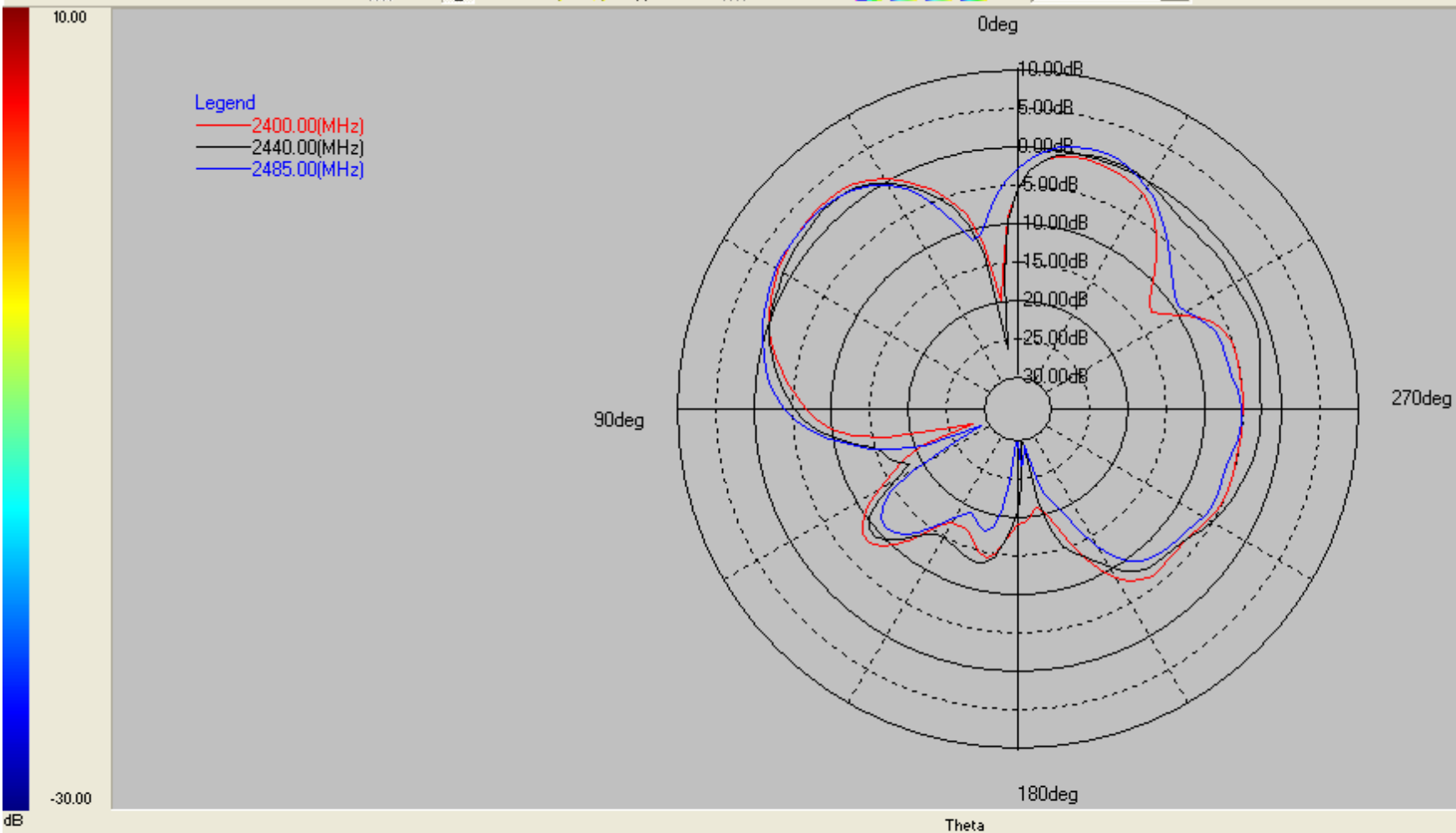


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-0.39 dB	-27.00 deg	-19.29 dB	-177.00 ...	49.37 d...	18.91 dB	-6.09 dB	5.15	----	----	----	----
2440(MHz)	1.11 dB	27.00 deg	-26.46 d...	177.00 d...	52.63 d...	27.57 dB	-6.38 dB	5.88	----	----	----	----
2485(MHz)	1.62 dB	21.00 deg	-29.90 d...	-180.00 ...	45.99 d...	31.53 dB	-5.96 dB	6.97	----	----	----	----



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2.4G-2 Elevation 2 Vertical Polarization

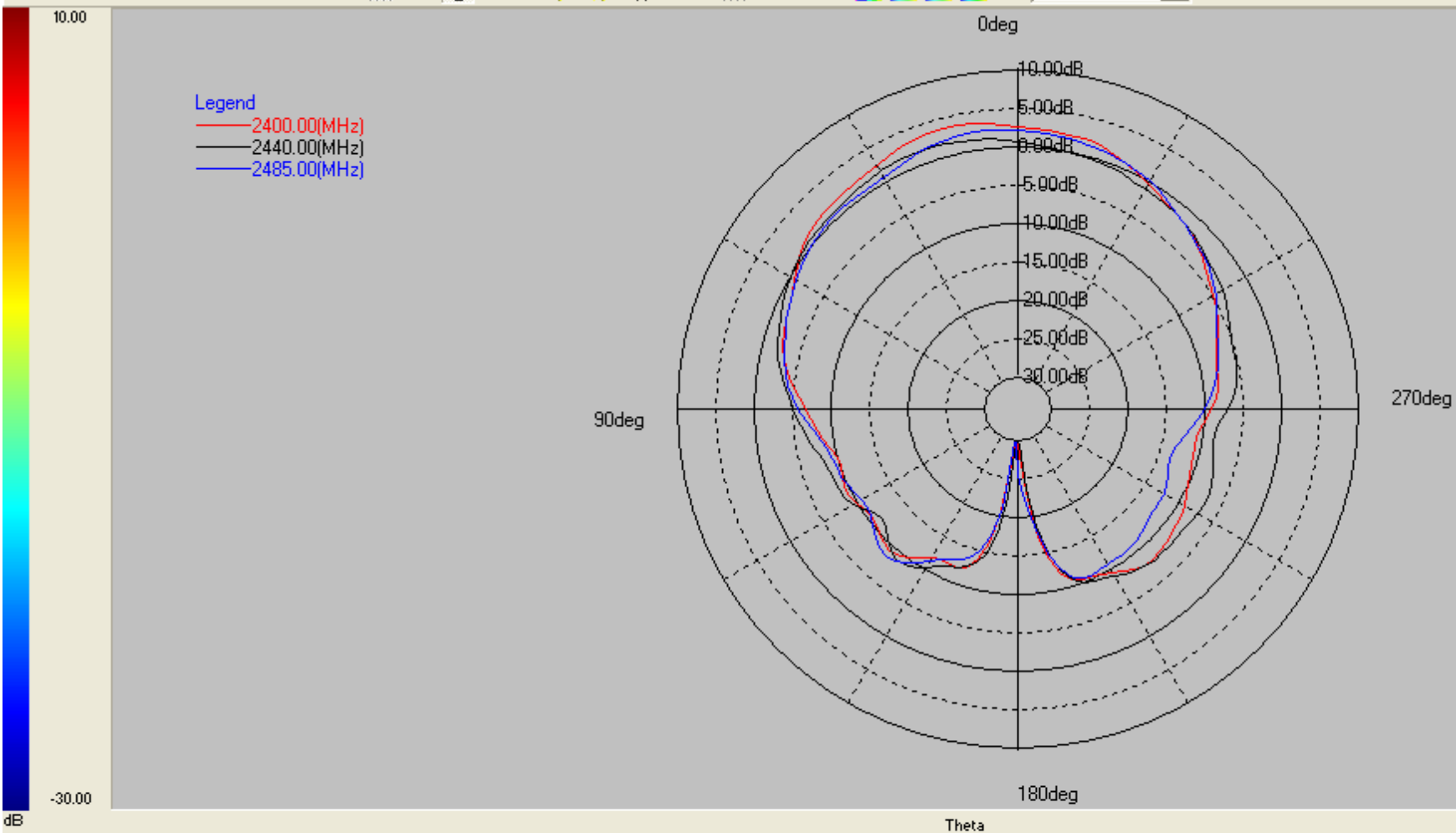


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	2.49 dB	45.00 deg	-28.21 dB	108.00 d...	45.09 d...	30.70 dB	-5.77 dB	6.96	----	----	----	----
2440(MHz)	1.86 dB	42.00 deg	-32.70 d...	-174.00 ...	47.97 d...	34.56 dB	-4.75 dB	7.50	----	----	----	----
2485(MHz)	2.44 dB	51.00 deg	-31.42 dB	177.00 d...	48.55 d...	33.86 dB	-5.69 dB	8.75	----	----	----	----



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2.4G-2 Elevation 2 Horizontal Polarization

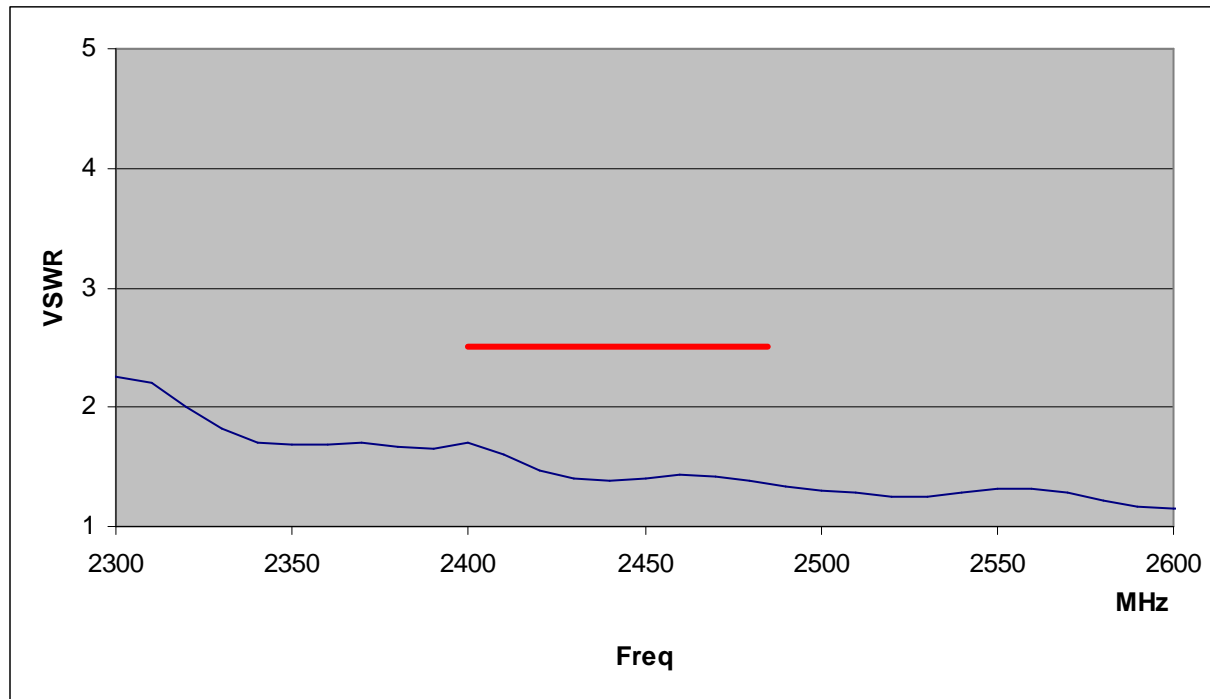


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	3.54 dB	15.00 deg	-39.49 d...	177.00 d...	78.86 d...	43.03 dB	-4.24 dB	7.84	----	----	----	----
2440(MHz)	1.69 dB	24.00 deg	-40.61 dB	-180.00 ...	102.90 d...	42.30 dB	-4.41 dB	7.57	----	----	----	----
2485(MHz)	2.26 dB	9.00 deg	-33.73 d...	177.00 d...	94.12 deg	35.99 dB	-4.88 dB	7.23	----	----	----	----

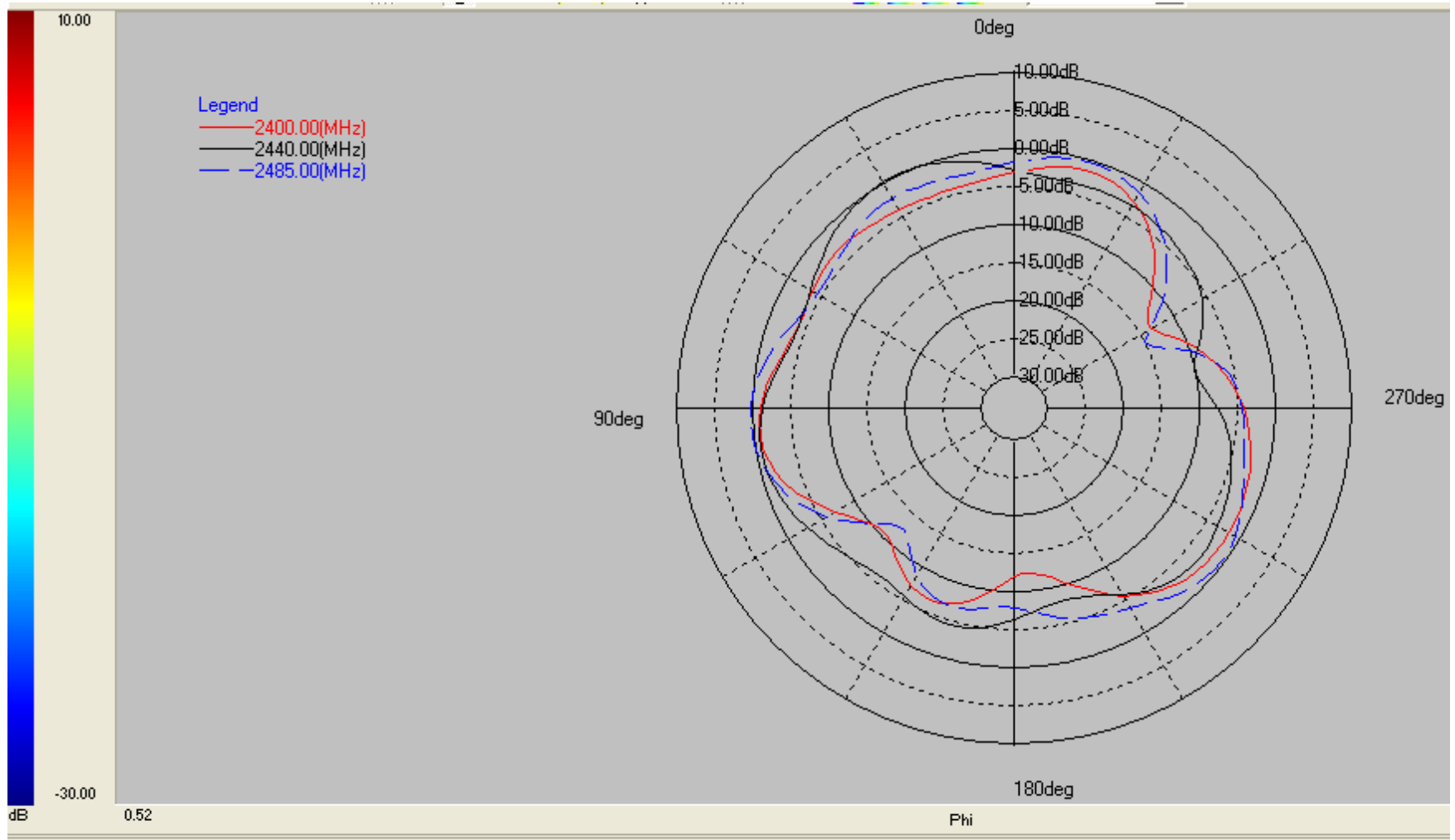


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2.4G-3 VSWR



2.4G-3 Azimuth Vertical Polarization

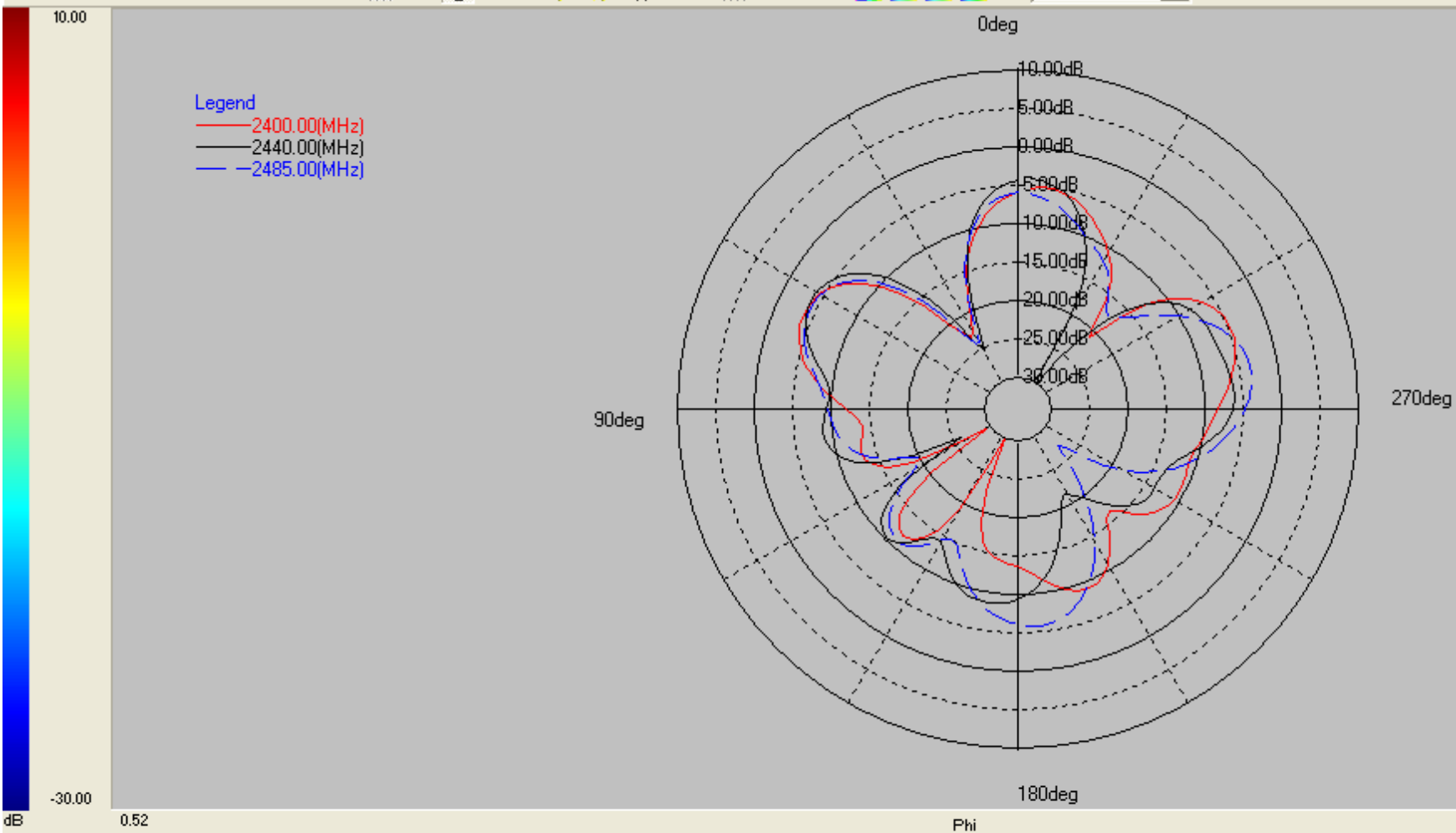


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-0.75 dB	96.00 deg	-13.43 dB	303.00 ...	39.50 d...	12.68 dB	-4.81 dB	3.49	----	----	----	----
2440(MHz)	0.04 dB	27.00 deg	-10.15 dB	282.00 ...	----	10.18 dB	-3.79 dB	2.40	----	----	----	----
2485(MHz)	0.39 dB	93.00 deg	-15.02 dB	297.00 ...	39.57 d...	15.40 dB	-3.85 dB	3.63	----	----	----	----



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2.4G-3 Azimuth Horizontal Polarization

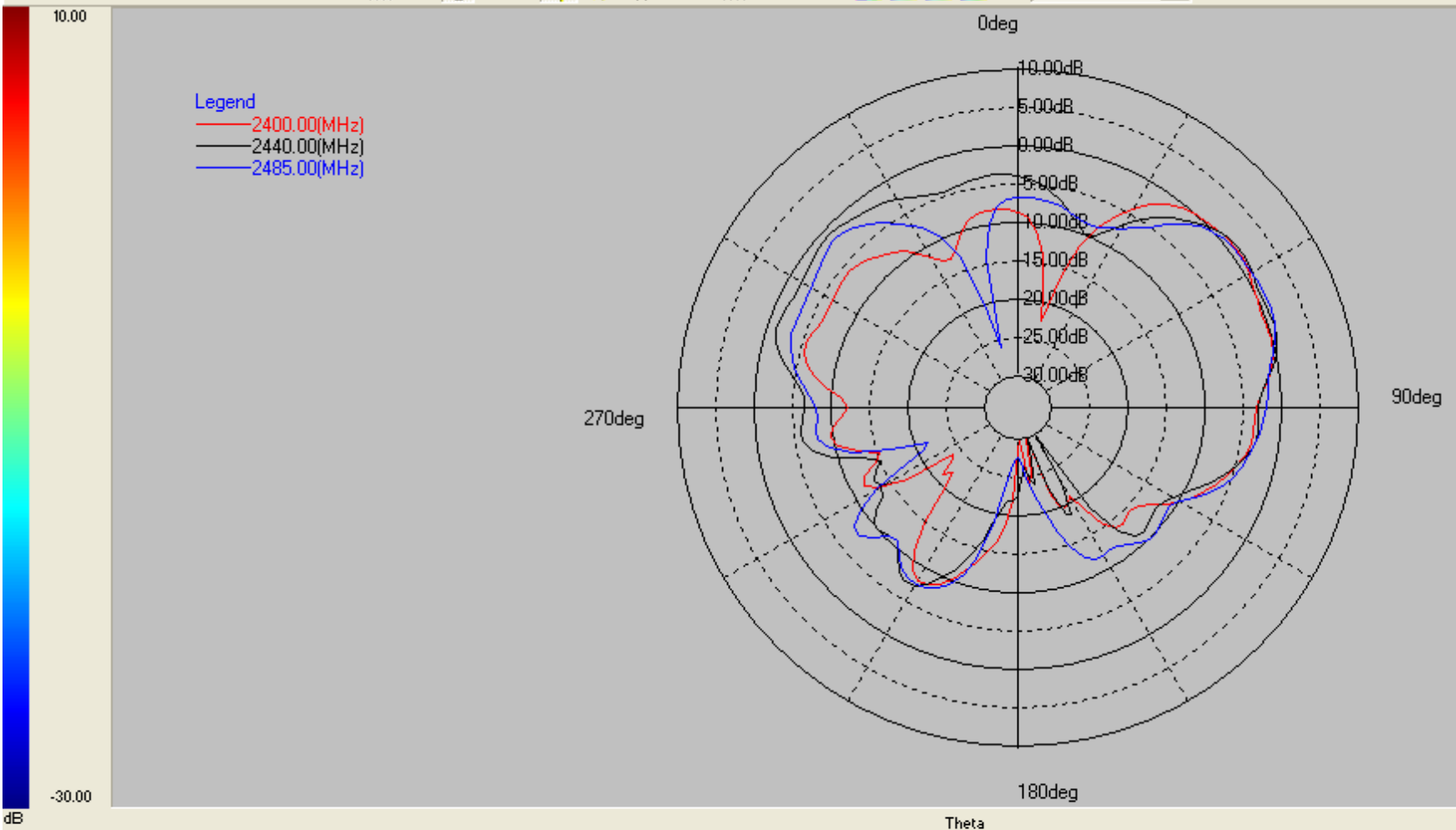


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-3.76 dB	66.00 deg	-33.76 d...	156.00 d...	26.30 d...	30.00 dB	-10.52 dB	5.67	----	----	----	----
2440(MHz)	-3.90 dB	63.00 deg	-35.31 dB	324.00 ...	25.66 d...	31.41 dB	-10.48 dB	6.00	----	----	----	----
2485(MHz)	-3.48 dB	279.00 deg	-27.33 d...	228.00 ...	29.15 deg	23.86 dB	-10.01 dB	5.66	----	----	----	----



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2.4G-3 Elevation 1 Vertical Polarization

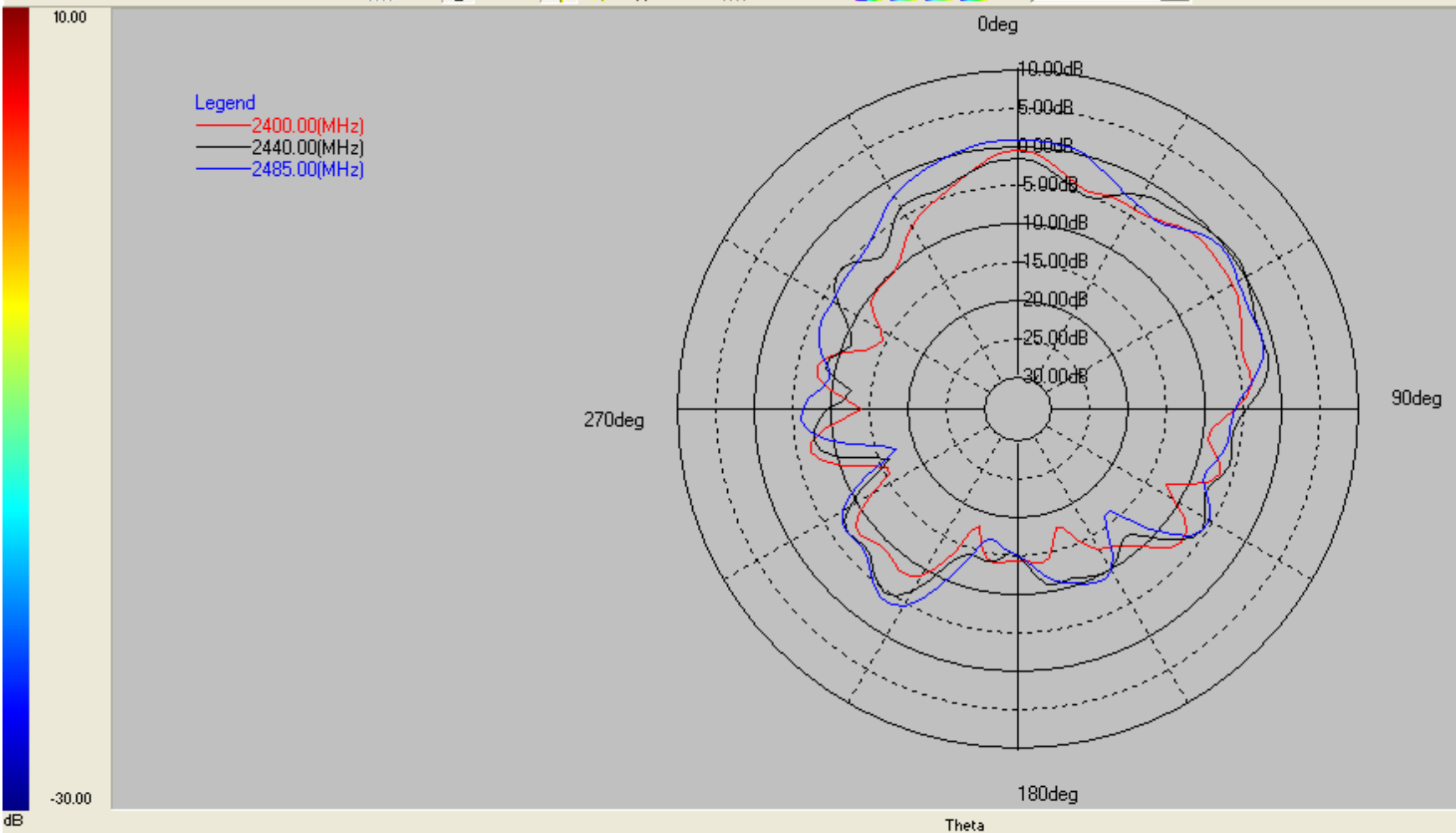


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	0.96 dB	54.00 deg	-37.87 d...	177.00 d...	51.02 deg	38.83 dB	-8.00 dB	7.97	----	----	----	----
2440(MHz)	1.30 dB	54.00 deg	-34.64 d...	162.00 d...	42.62 d...	35.93 dB	-5.80 dB	7.79	----	----	----	----
2485(MHz)	1.25 dB	66.00 deg	-27.91 dB	-180.00 ...	44.58 d...	29.16 dB	-6.57 dB	7.13	----	----	----	----



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2.4G-3 Elevation 1 Horizontal Polarization

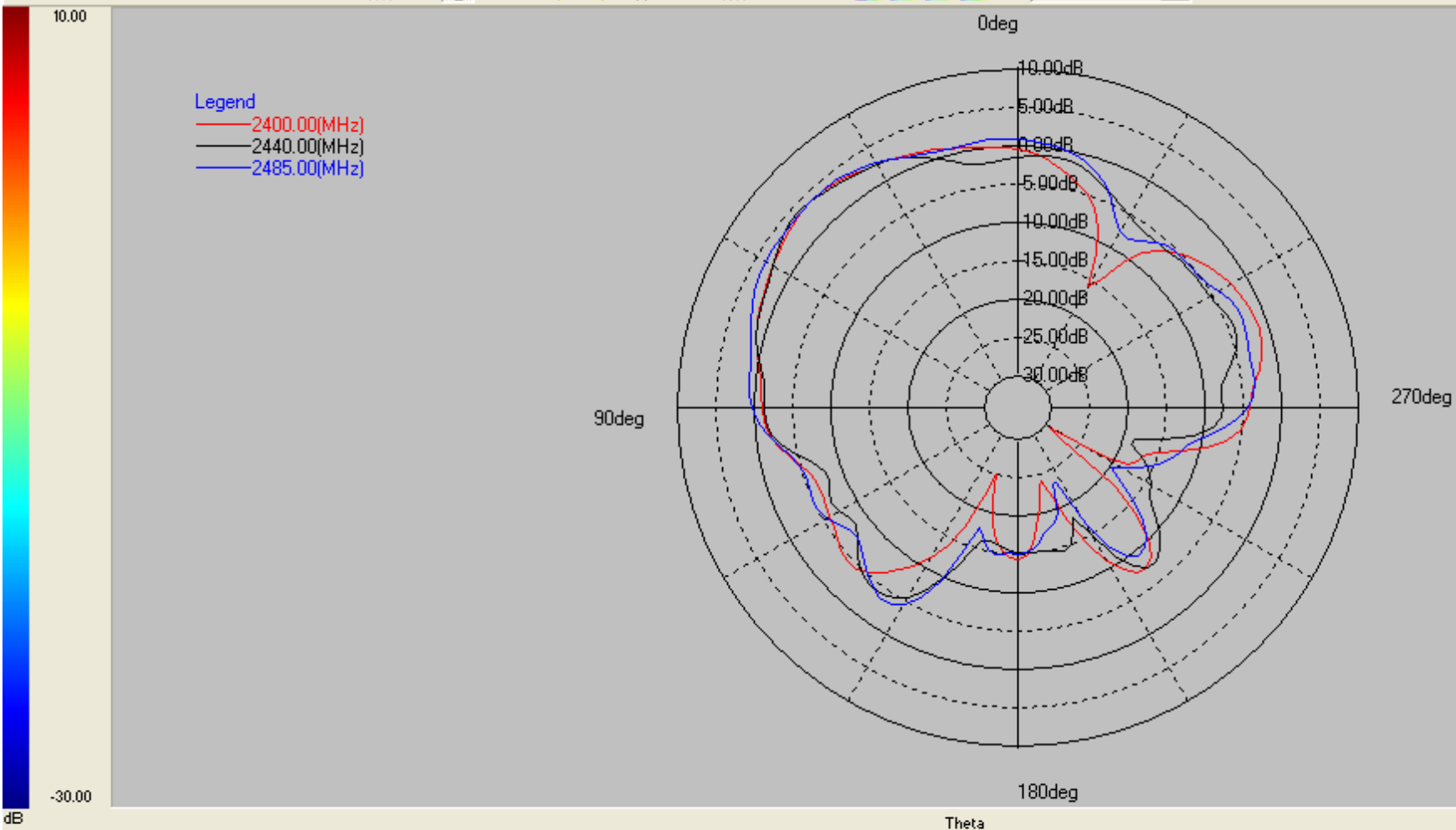


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-0.56 dB	0.00 deg	-18.37 dB	-162.00 ...	26.94 d...	17.81 dB	-7.40 dB	4.64	----	----	----	----
2440(MHz)	0.43 dB	54.00 deg	-16.40 dB	-111.00 d...	57.78 d...	16.83 dB	-5.93 dB	4.36	----	----	----	----
2485(MHz)	0.70 dB	6.00 deg	-17.72 dB	-108.00 ...	54.05 d...	18.42 dB	-5.31 dB	4.97	----	----	----	----



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2.4G-3 Elevation 2 Vertical Polarization

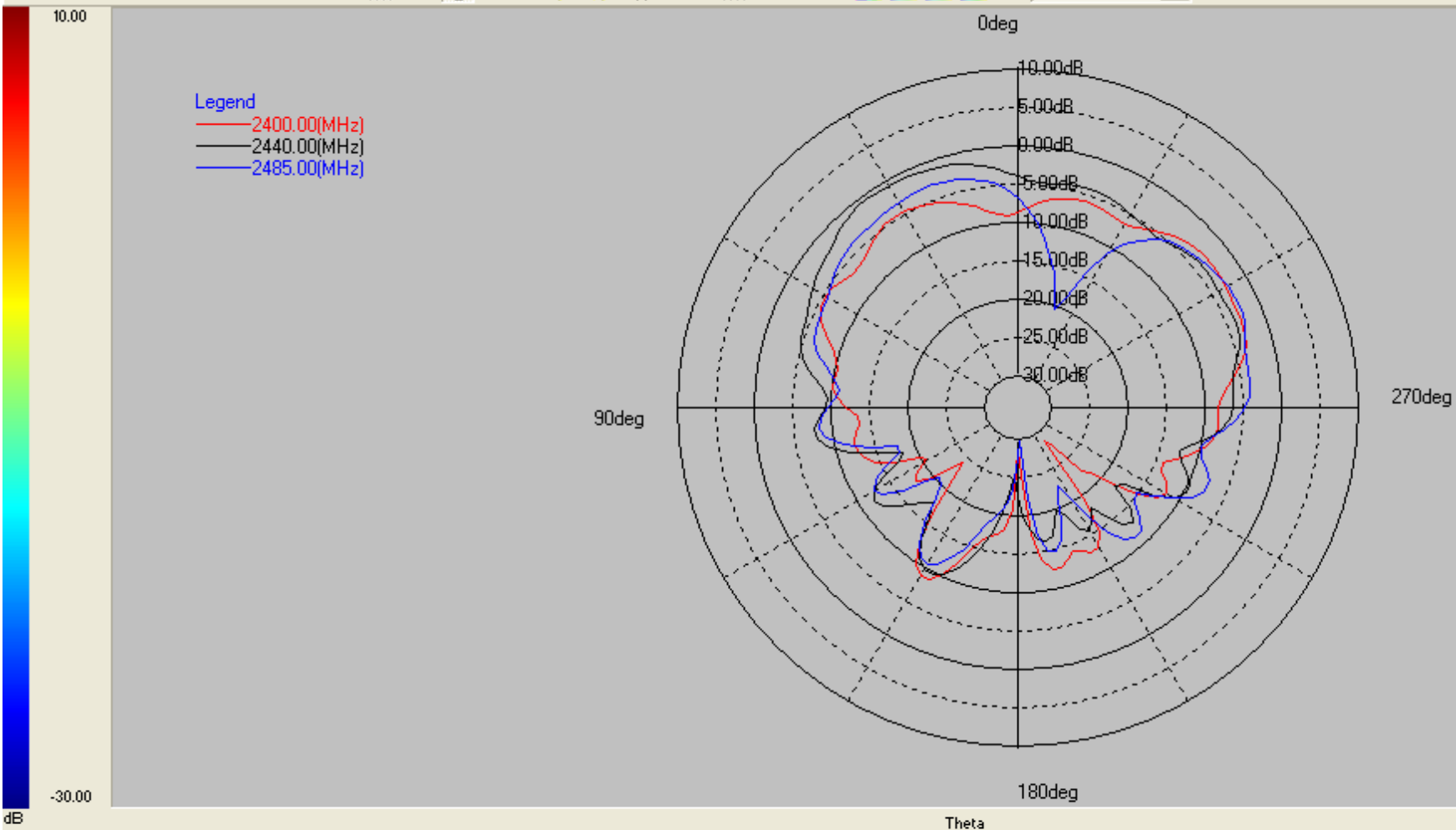


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	3.78 dB	45.00 deg	-29.51 dB	-123.00 ...	60.37 d...	33.28 dB	-4.15 dB	7.98	----	----	----	----
2440(MHz)	3.93 dB	48.00 deg	-18.69 dB	-108.00 ...	52.91 deg	22.62 dB	-4.34 dB	6.19	----	----	----	----
2485(MHz)	3.81 dB	45.00 deg	-23.37 d...	-156.00 ...	66.46 d...	27.19 dB	-3.56 dB	7.10	----	----	----	----



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2.4G-3 Elevation 2 Horizontal Polarization

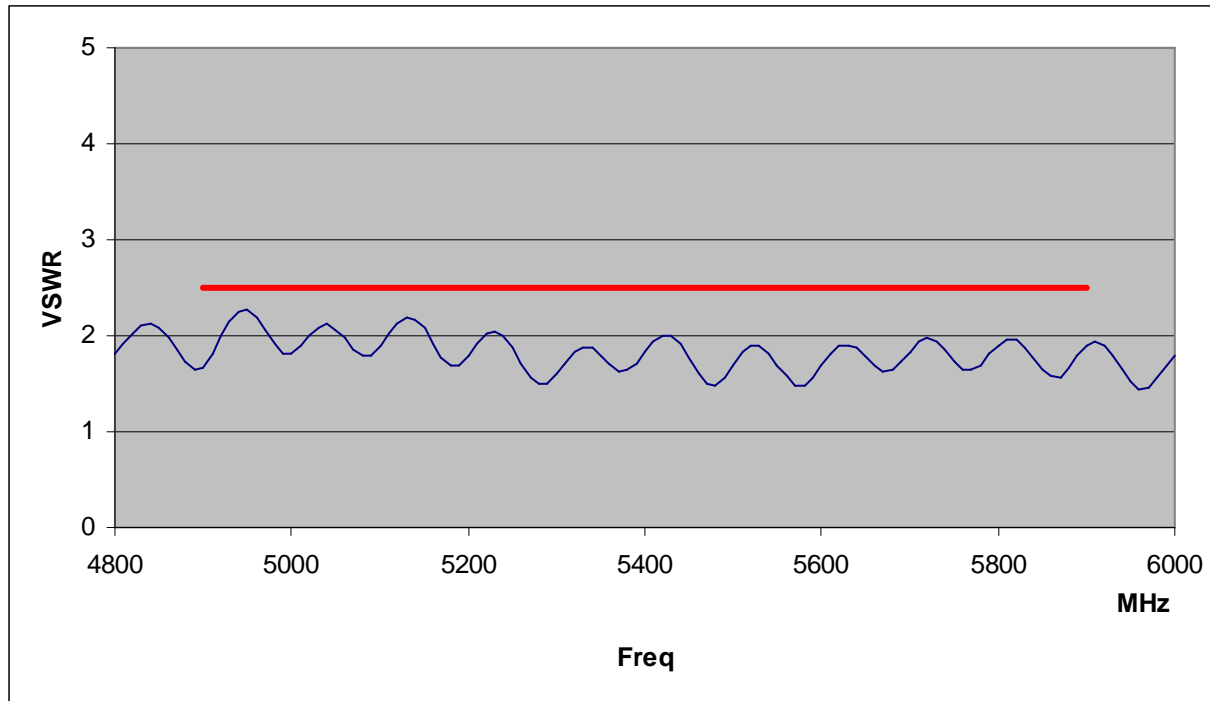


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-2.88 dB	-54.00 deg	-28.79 d...	-141.00 ...	47.31 deg	25.91 dB	-9.20 dB	6.35	----	----	----	----
2440(MHz)	-0.70 dB	36.00 deg	-25.45 d...	177.00 d...	59.58 d...	24.75 dB	-7.33 dB	6.23	----	----	----	----
2485(MHz)	-2.51 dB	-66.00 deg	-32.93 d...	-177.00 ...	51.57 deg	30.43 dB	-8.76 dB	6.59	----	----	----	----

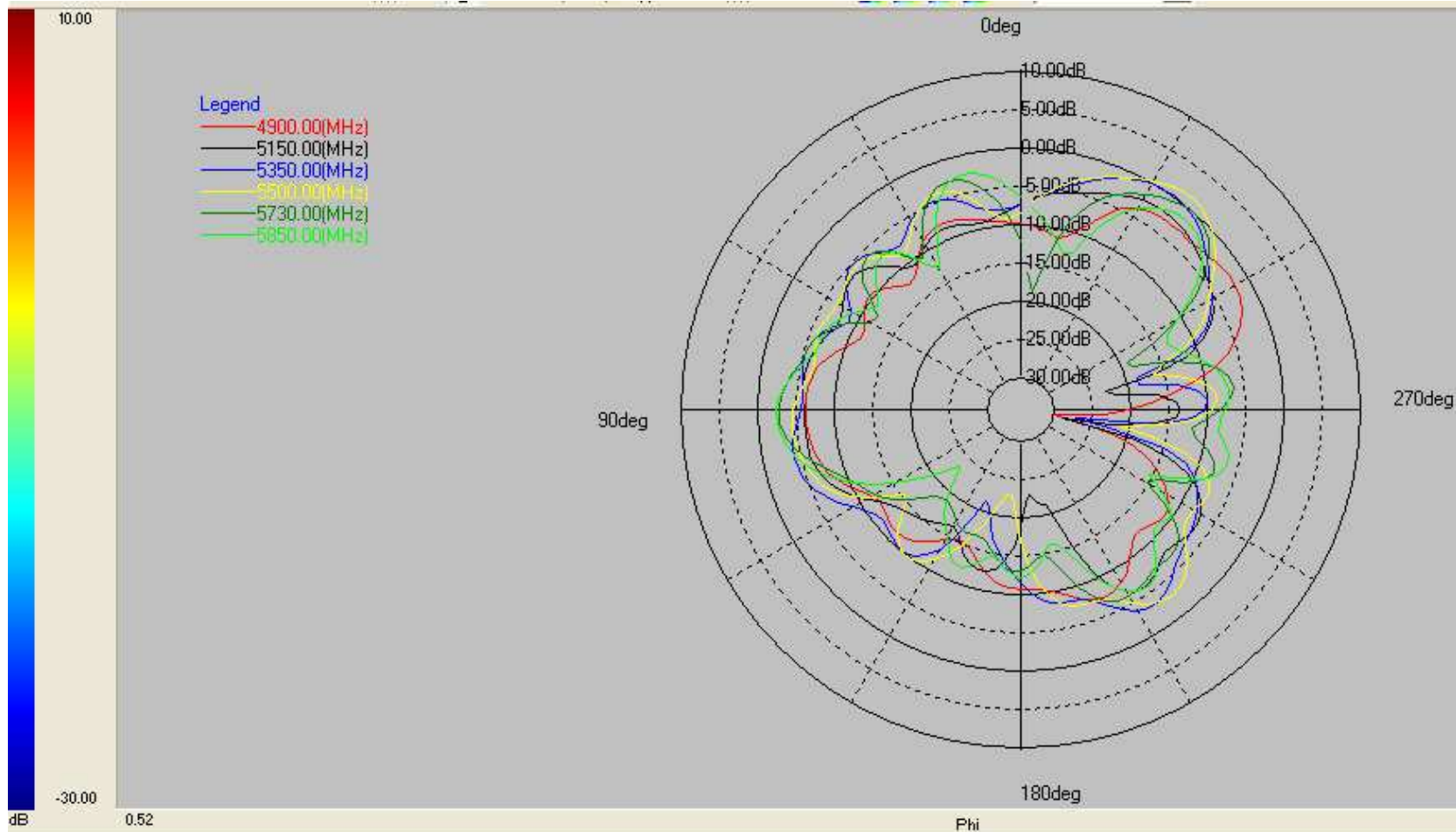


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5G-1 VSWR



5G-1 Azimuth Vertical Polarization

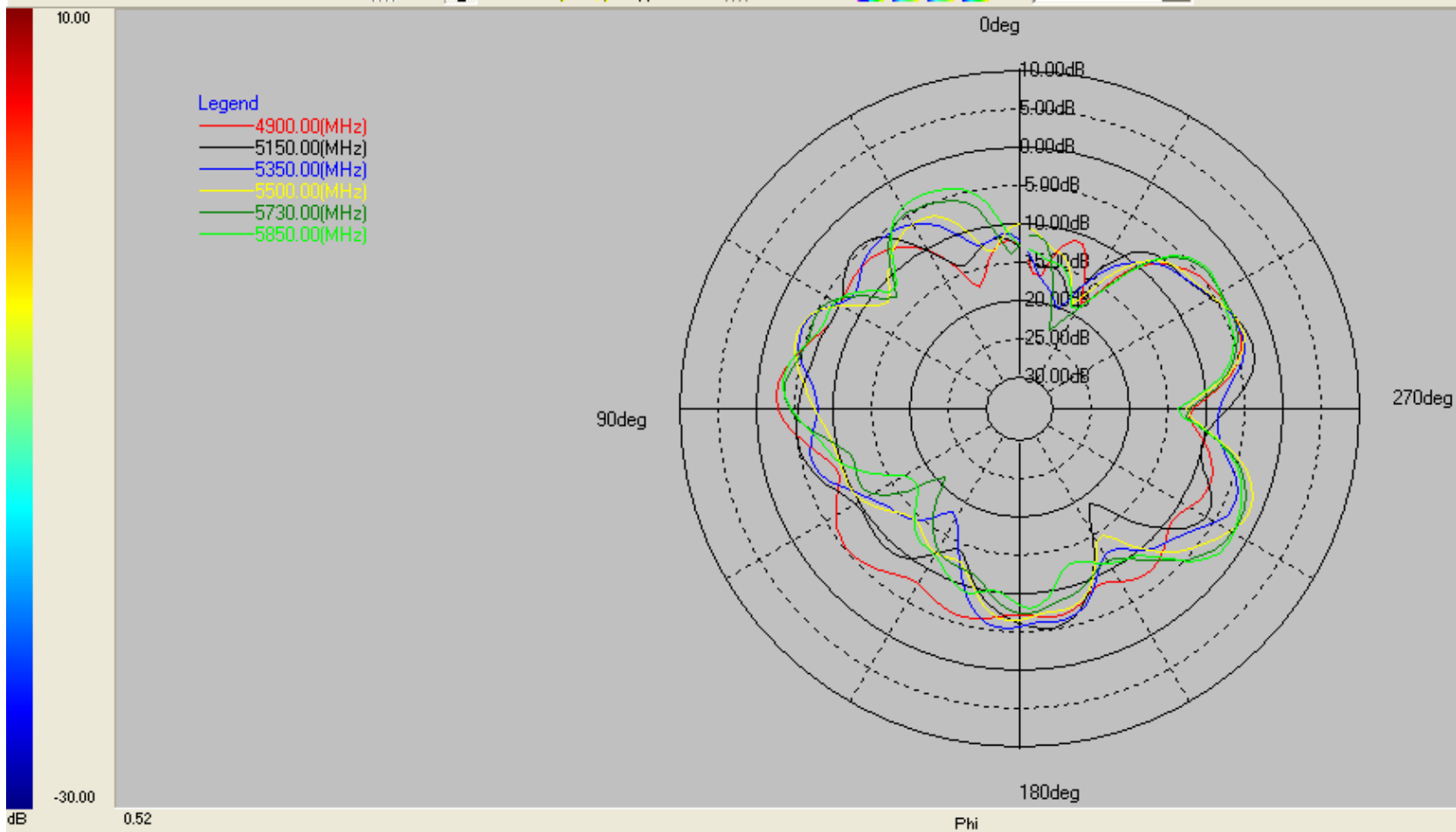


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
4900(MHz)	-1.92 dB	300.00 deg	-33.05 d...	261.00 d...	45.33 d...	31.13 dB	-9.08 dB	5.02	---	---	---	---
5150(MHz)	-2.31 dB	324.00 deg	-28.78 d...	258.00 ...	46.95 d...	26.47 dB	-8.71 dB	5.48	---	---	---	---
5350(MHz)	0.04 dB	324.00 deg	-26.97 d...	261.00 d...	33.63 d...	27.01 dB	-6.92 dB	4.96	---	---	---	---
5500(MHz)	1.29 dB	321.00 deg	-23.18 dB	171.00 d...	29.81 deg	24.47 dB	-6.80 dB	5.18	---	---	---	---
5730(MHz)	-0.17 dB	318.00 deg	-19.12 dB	294.00 ...	26.49 d...	18.95 dB	-8.03 dB	5.02	---	---	---	---
5850(MHz)	-1.49 dB	318.00 deg	-23.40 d...	132.00 d...	22.86 d...	21.91 dB	-8.29 dB	4.80	---	---	---	---



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5G-1 Azimuth Horizontal Polarization

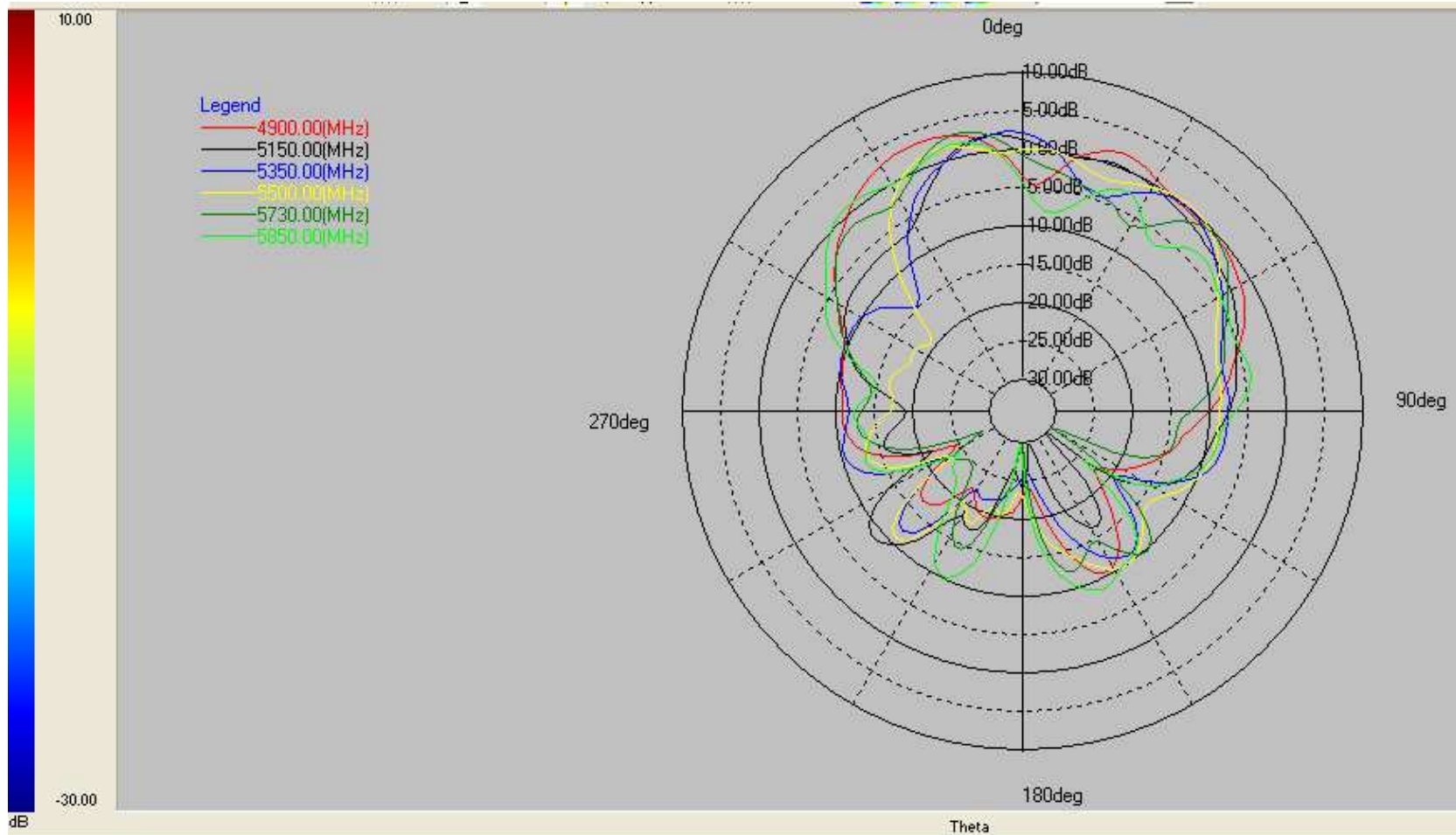


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
4900(MHz)	-2.50 dB	87.00 deg	-18.44 dB	330.00 ...	25.39 d...	15.94 dB	-7.77 dB	3.48	----	----	----	----
5150(MHz)	-2.79 dB	285.00 deg	-18.89 dB	216.00 d...	28.95 d...	16.10 dB	-8.33 dB	3.85	----	----	----	----
5350(MHz)	-3.56 dB	246.00 deg	-20.27 d...	339.00 ...	22.29 d...	16.71 dB	-8.21 dB	4.10	----	----	----	----
5500(MHz)	-1.39 dB	246.00 deg	-18.90 dB	333.00 ...	21.96 deg	17.51 dB	-8.24 dB	3.70	----	----	----	----
5730(MHz)	-1.96 dB	243.00 deg	-23.39 d...	339.00 ...	28.19 deg	21.43 dB	-8.12 dB	4.87	----	----	----	----
5850(MHz)	-1.82 dB	237.00 deg	-19.35 dB	333.00 ...	27.44 d...	17.53 dB	-8.01 dB	4.42	----	----	----	----



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5G-1 Elevation 1 Vertical Polarization

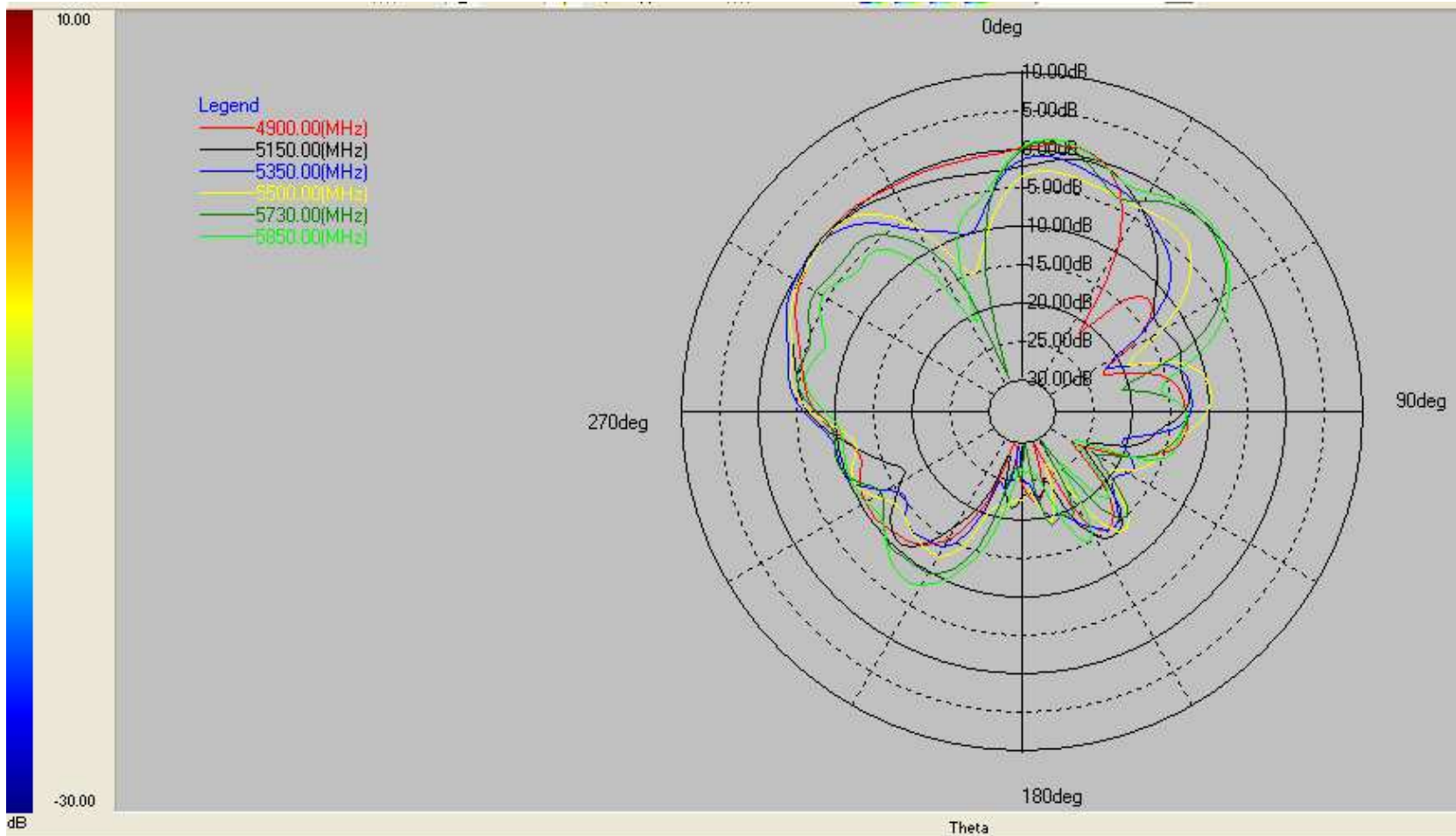


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
4900(MHz)	3.24 dB	-21.00 deg	-24.81 dB	-117.00 ...	34.94 d...	28.05 dB	-6.27 dB	8.63	----	----	----	----
5150(MHz)	1.92 dB	-6.00 deg	-35.79 d...	168.00 d...	57.49 d...	37.71 dB	-7.63 dB	9.05	----	----	----	----
5350(MHz)	2.29 dB	-3.00 deg	-26.14 dB	177.00 d...	27.81 deg	28.43 dB	-7.88 dB	7.60	----	----	----	----
5500(MHz)	1.66 dB	-18.00 deg	-23.74 d...	-177.00 ...	44.29 d...	25.40 dB	-7.77 dB	7.38	----	----	----	----
5730(MHz)	2.89 dB	-12.00 deg	-40.09 d...	120.00 d...	22.52 d...	42.97 dB	-7.86 dB	9.17	----	----	----	----
5850(MHz)	1.76 dB	-15.00 deg	-32.27 d...	-177.00 ...	46.12 deg	34.02 dB	-7.26 dB	7.55	----	----	----	----



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5G-1 Elevation 1 Horizontal Polarization

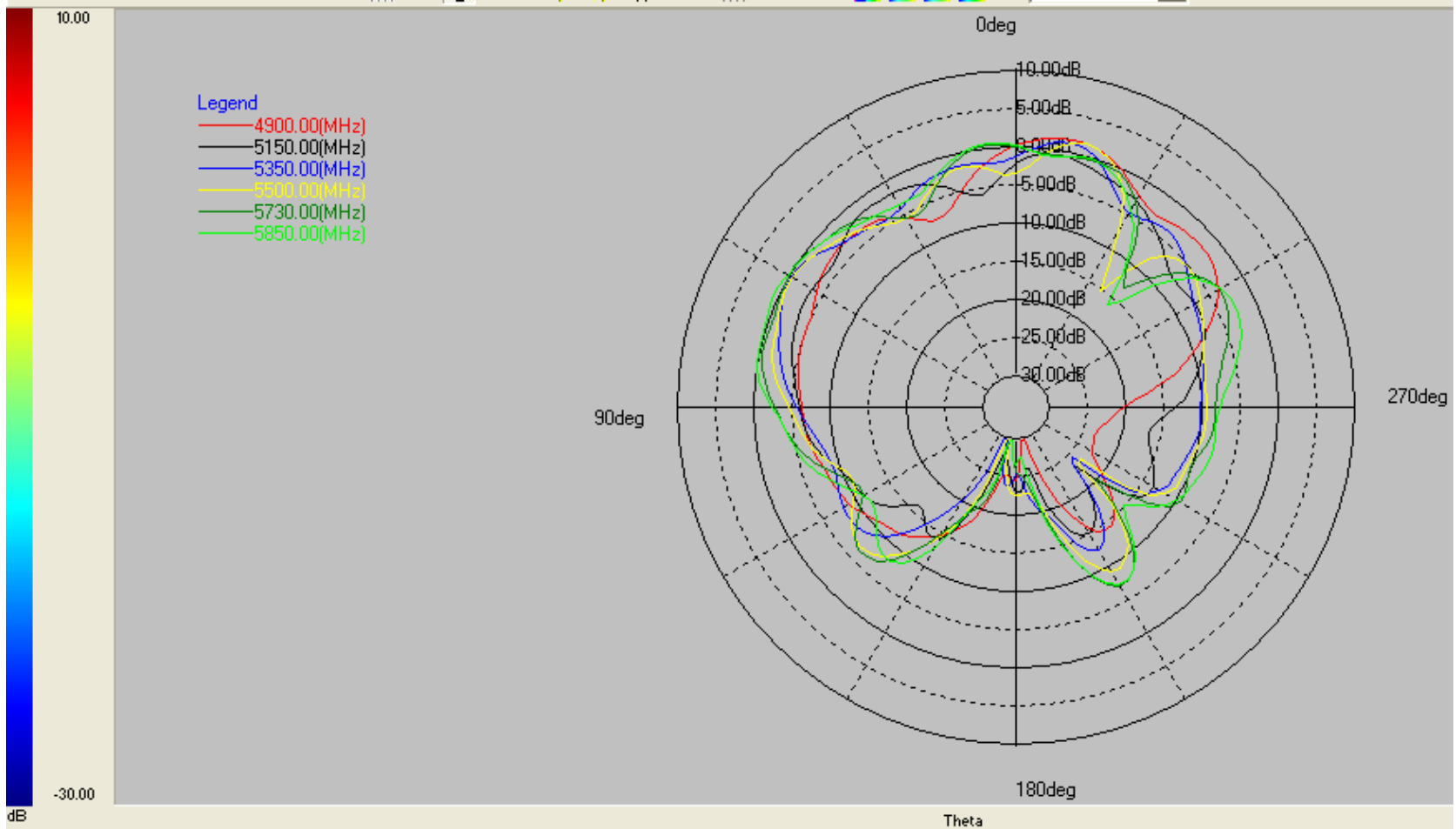


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
4900(MHz)	0.78 dB	3.00 deg	-32.51 dB	159.00 d...	89.41 deg	33.29 dB	-8.07 dB	9.14	----	----	----	----
5150(MHz)	0.17 dB	-51.00 deg	-28.30 d...	-165.00 ...	63.08 d...	28.46 dB	-8.08 dB	8.28	----	----	----	----
5350(MHz)	0.00 dB	-57.00 deg	-29.67 d...	-174.00 ...	38.59 d...	29.67 dB	-8.68 dB	7.73	----	----	----	----
5500(MHz)	0.07 dB	-48.00 deg	-26.69 d...	153.00 d...	38.09 d...	26.76 dB	-8.68 dB	7.13	----	----	----	----
5730(MHz)	0.97 dB	6.00 deg	-37.60 d...	174.00 d...	21.11 deg	38.56 dB	-8.34 dB	8.41	----	----	----	----
5850(MHz)	1.33 dB	6.00 deg	-27.00 d...	-177.00 ...	27.84 d...	28.32 dB	-7.99 dB	8.04	----	----	----	----



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5G-1 Elevation 2 Vertical Polarization

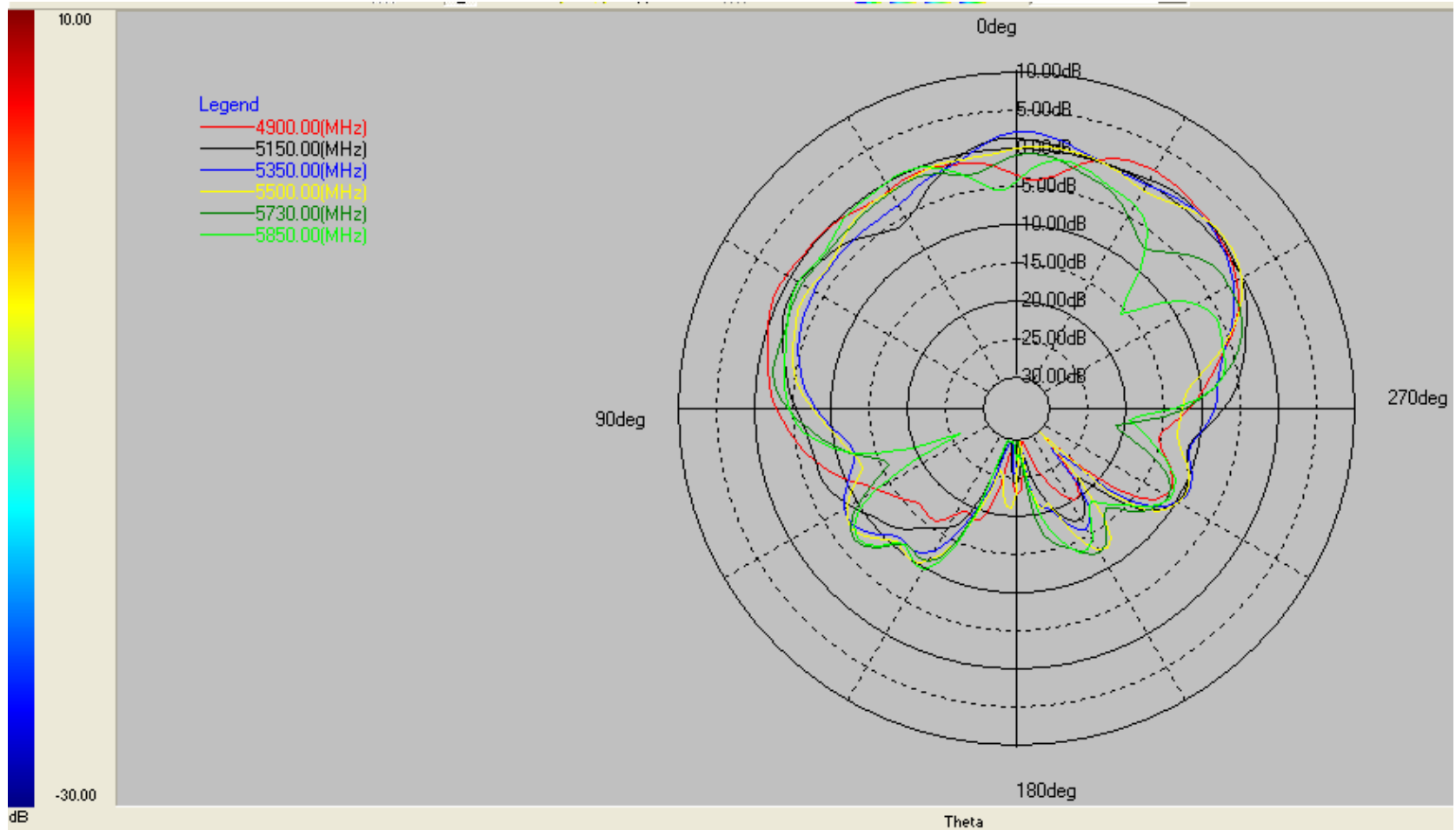


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
4900(MHz)	1.55 dB	-12.00 deg	-33.83 d...	-168.00 ...	32.75 d...	35.37 dB	-7.68 dB	8.93	----	----	----	----
5150(MHz)	-0.74 dB	-9.00 deg	-28.55 d...	168.00 d...	37.11 deg	27.81 dB	-8.10 dB	7.56	----	----	----	----
5350(MHz)	1.09 dB	-12.00 deg	-43.33 d...	162.00 d...	24.70 d...	44.43 dB	-7.00 dB	8.43	----	----	----	----
5500(MHz)	1.41 dB	-15.00 deg	-33.62 d...	165.00 d...	19.66 deg	35.03 dB	-6.90 dB	7.47	----	----	----	----
5730(MHz)	0.20 dB	60.00 deg	-44.07 d...	171.00 d...	52.45 d...	44.28 dB	-5.92 dB	8.15	----	----	----	----
5850(MHz)	0.61 dB	66.00 deg	-37.51 dB	171.00 d...	47.69 d...	38.12 dB	-5.67 dB	8.14	----	----	----	----



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5G-1 Elevation 2 Horizontal Polarization

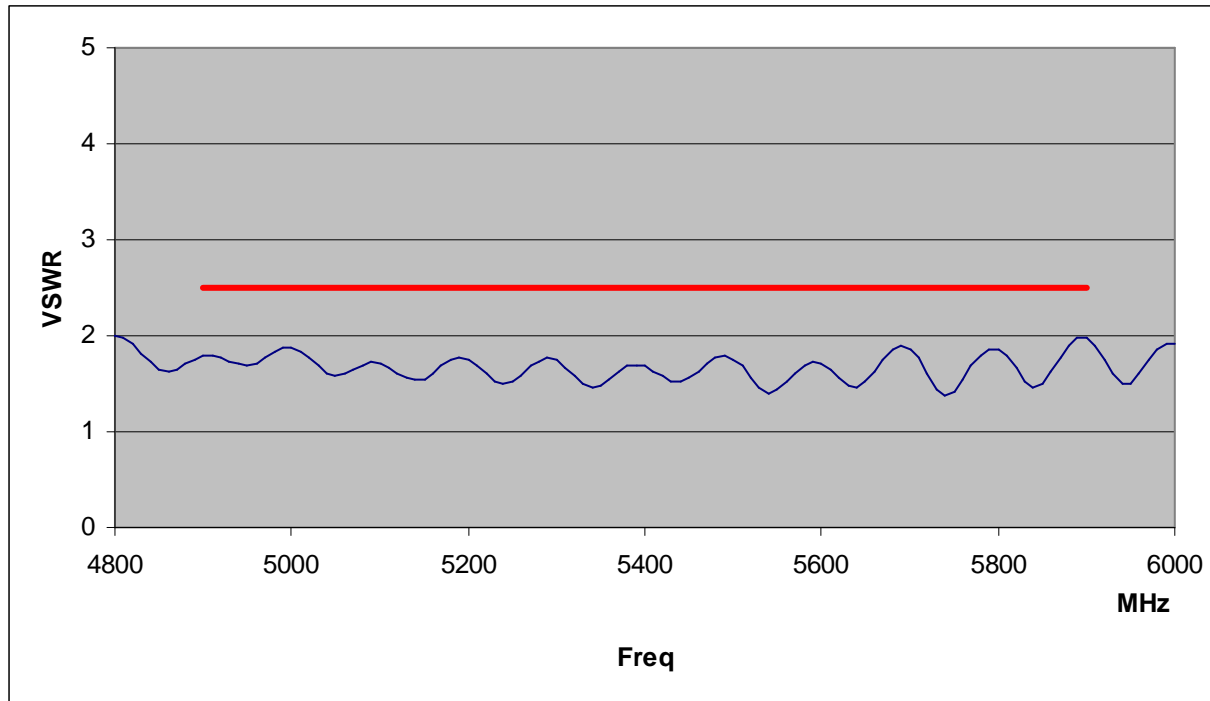


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
4900(MHz)	1.78 dB	-30.00 deg	-32.14 dB	-171.00 ...	47.05 d...	33.92 dB	-5.55 dB	9.61	----	----	----	----
5150(MHz)	1.22 dB	0.00 deg	-39.39 d...	168.00 d...	85.70 d...	40.61 dB	-5.50 dB	9.19	----	----	----	----
5350(MHz)	2.11 dB	-3.00 deg	-45.19 dB	171.00 d...	70.51 deg	47.30 dB	-6.01 dB	9.08	----	----	----	----
5500(MHz)	1.08 dB	-48.00 deg	-33.53 d...	-174.00 ...	108.46 d...	34.61 dB	-5.90 dB	8.14	----	----	----	----
5730(MHz)	-0.66 dB	-3.00 deg	-51.38 dB	165.00 d...	113.77 d...	50.72 dB	-6.71 dB	9.19	----	----	----	----
5850(MHz)	0.10 dB	27.00 deg	-43.98 d...	165.00 d...	61.82 deg	44.08 dB	-7.31 dB	9.00	----	----	----	----

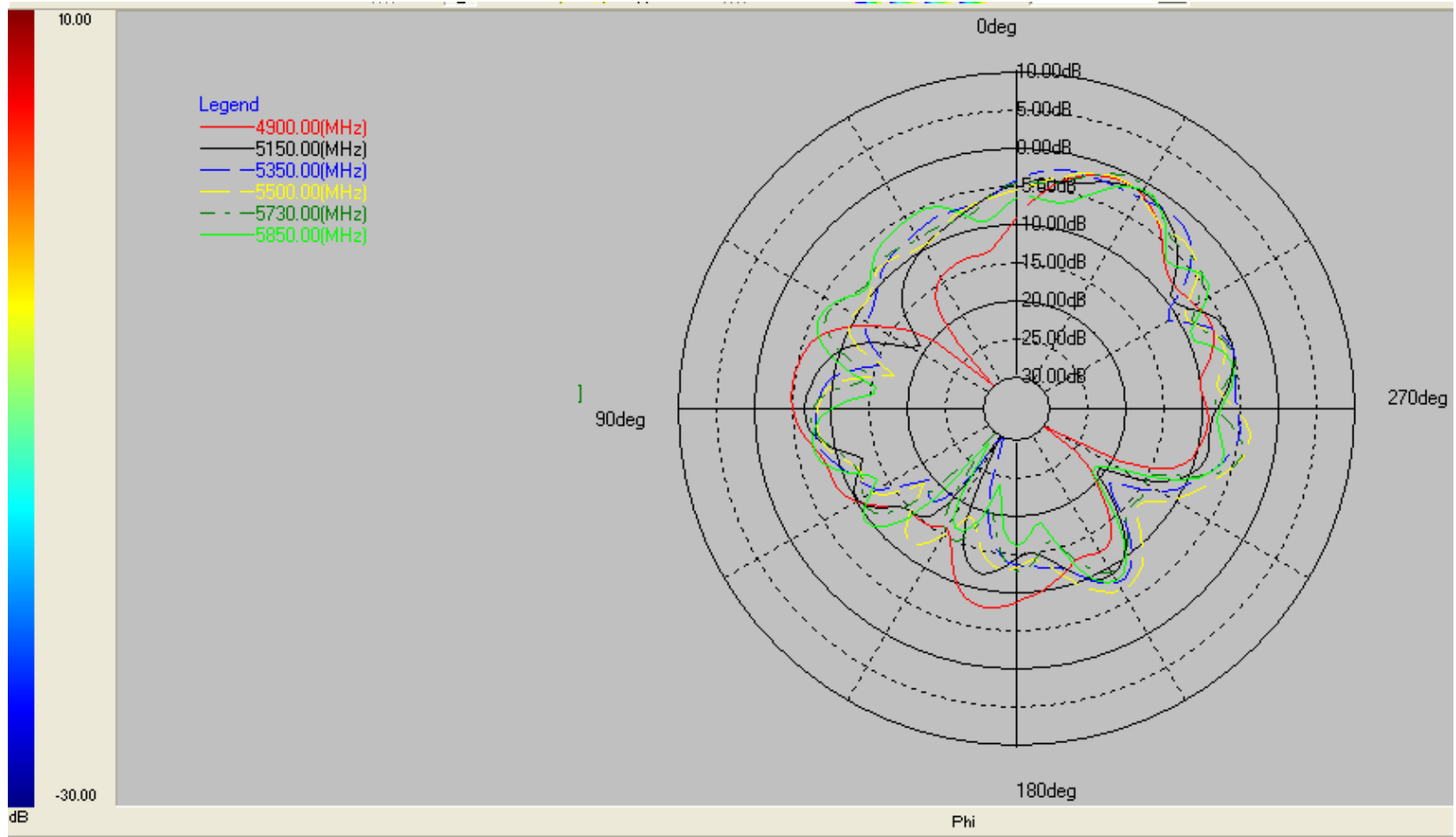


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5G-2 VSWR



5G-2 Azimuth Vertical Polarization

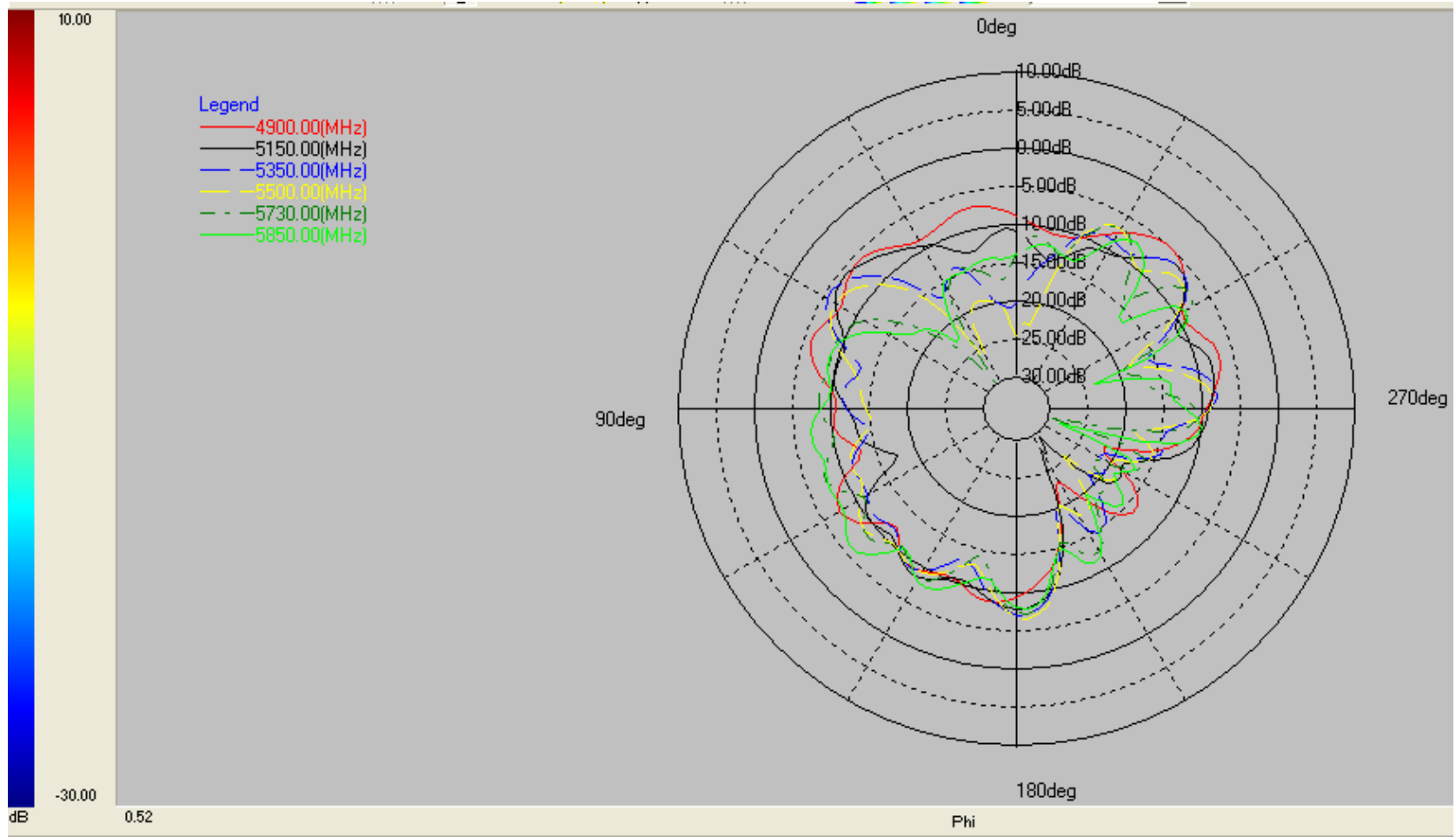


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
4900(MHz)	-1.42 dB	336.00 deg	-35.42 d...	237.00 ...	29.32 d...	34.00 dB	-9.43 dB	5.98	----	----	----	----
5150(MHz)	-1.37 dB	330.00 deg	-35.37 d...	150.00 d...	41.10 deg	34.00 dB	-9.06 dB	5.34	----	----	----	----
5350(MHz)	-1.67 dB	321.00 deg	-38.11 dB	153.00 d...	----	36.44 dB	-8.58 dB	6.64	----	----	----	----
5500(MHz)	-1.21 dB	336.00 deg	-18.85 dB	156.00 d...	44.61 deg	17.64 dB	-8.21 dB	4.22	----	----	----	----
5730(MHz)	-0.44 dB	333.00 deg	-32.52 d...	138.00 d...	26.16 deg	32.08 dB	-8.40 dB	5.27	----	----	----	----
5850(MHz)	-1.11 dB	330.00 deg	-28.48 d...	141.00 d...	20.07 d...	27.37 dB	-8.91 dB	5.74	----	----	----	----



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5G-2 Azimuth Horizontal Polarization

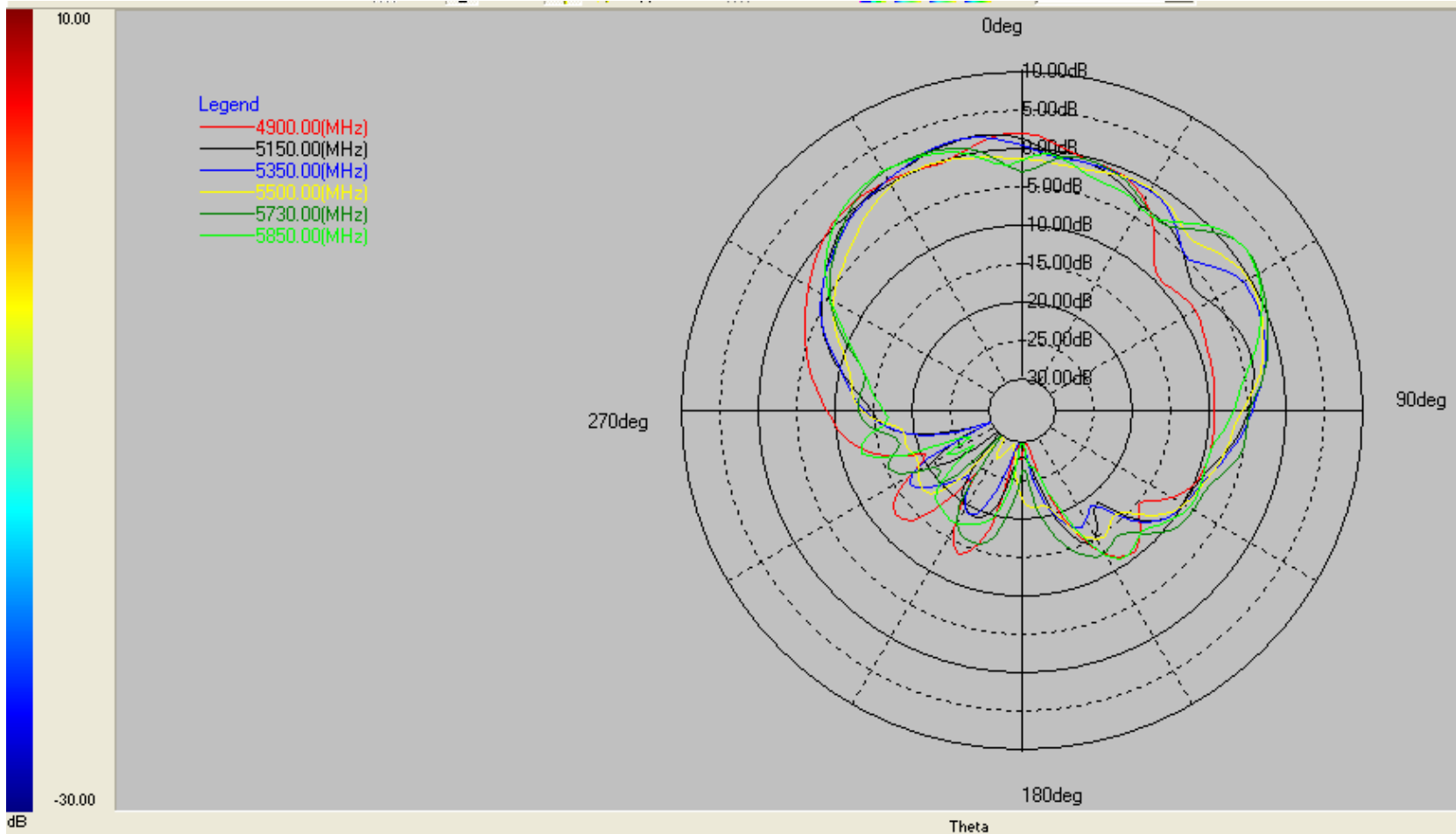


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
4900(MHz)	-5.06 dB	315.00 deg	-23.40 d...	210.00 d...	27.84 d...	18.34 dB	-9.63 dB	4.05	----	----	----	----
5150(MHz)	-5.83 dB	54.00 deg	-29.58 d...	219.00 d...	30.27 d...	23.75 dB	-10.32 dB	4.95	----	----	----	----
5350(MHz)	-5.57 dB	57.00 deg	-21.69 dB	240.00 ...	20.22 d...	16.12 dB	-11.78 dB	4.20	----	----	----	----
5500(MHz)	-6.72 dB	60.00 deg	-26.44 d...	30.00 d...	22.42 d...	19.72 dB	-12.41 dB	5.29	----	----	----	----
5730(MHz)	-6.79 dB	303.00 deg	-34.49 d...	39.00 d...	13.21 deg	27.70 dB	-12.04 dB	5.02	----	----	----	----
5850(MHz)	-6.04 dB	129.00 deg	-28.36 d...	252.00 ...	49.15 deg	22.32 dB	-11.70 dB	4.30	----	----	----	----



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5G-2 Elevation 1 Vertical Polarization

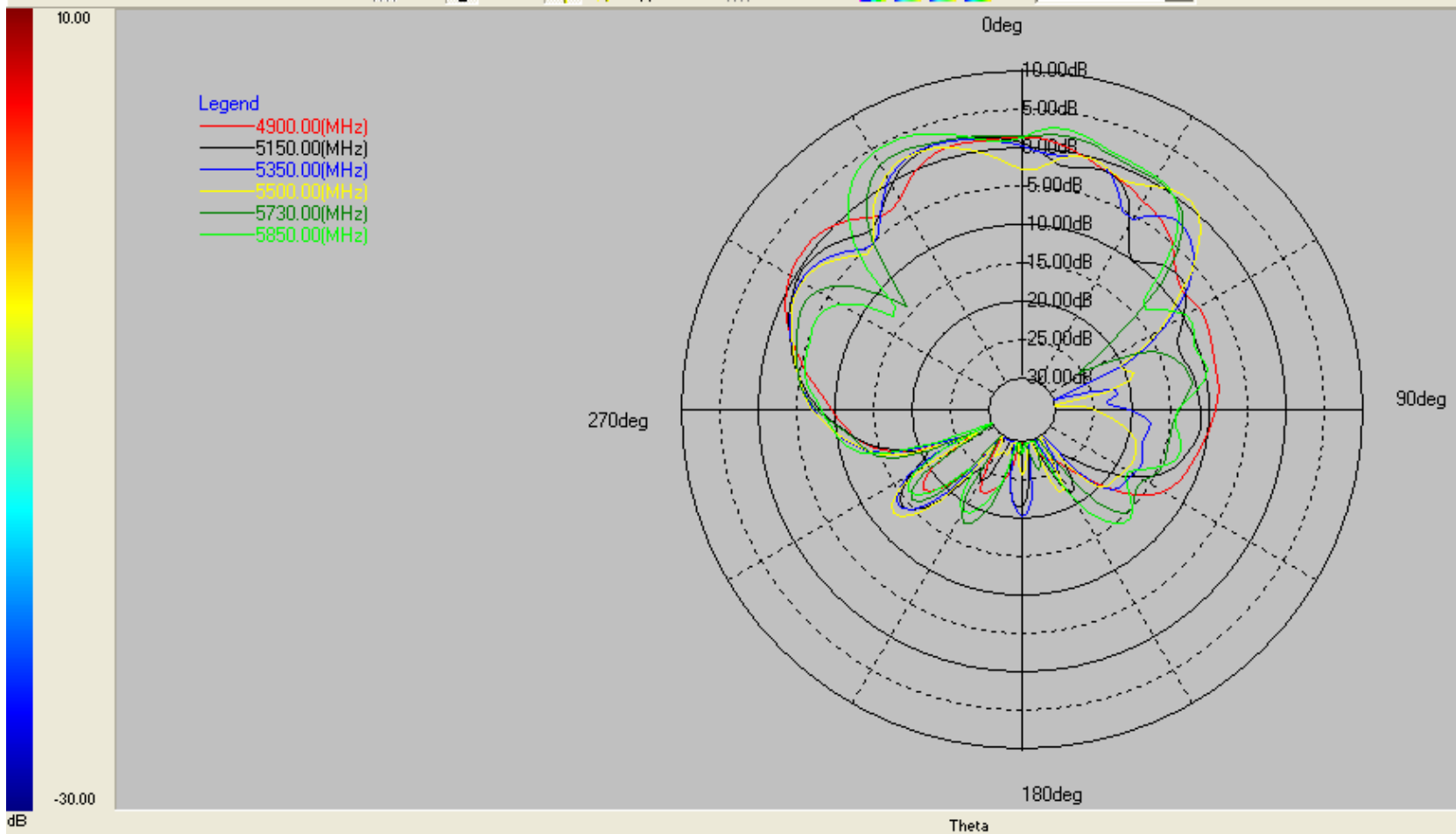


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
4900(MHz)	1.92 dB	-3.00 deg	-32.23 d...	174.00 d...	79.30 d...	34.15 dB	-6.79 dB	8.55	---	---	---	---
5150(MHz)	1.97 dB	-9.00 deg	-37.32 d...	-132.00 ...	57.70 d...	39.28 dB	-6.94 dB	9.82	---	---	---	---
5350(MHz)	1.89 dB	-12.00 deg	-35.76 d...	-177.00 ...	74.52 d...	37.65 dB	-6.34 dB	10.19	---	---	---	---
5500(MHz)	0.10 dB	-24.00 deg	-45.24 d...	-144.00 ...	124.78 d...	45.33 dB	-6.95 dB	9.71	---	---	---	---
5730(MHz)	1.68 dB	-27.00 deg	-33.13 dB	-141.00 ...	40.22 d...	34.81 dB	-5.88 dB	8.52	---	---	---	---
5850(MHz)	1.75 dB	-30.00 deg	-35.84 d...	-180.00 ...	42.07 d...	37.59 dB	-6.36 dB	9.55	---	---	---	---



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5G-2 Elevation 1 Horizontal Polarization

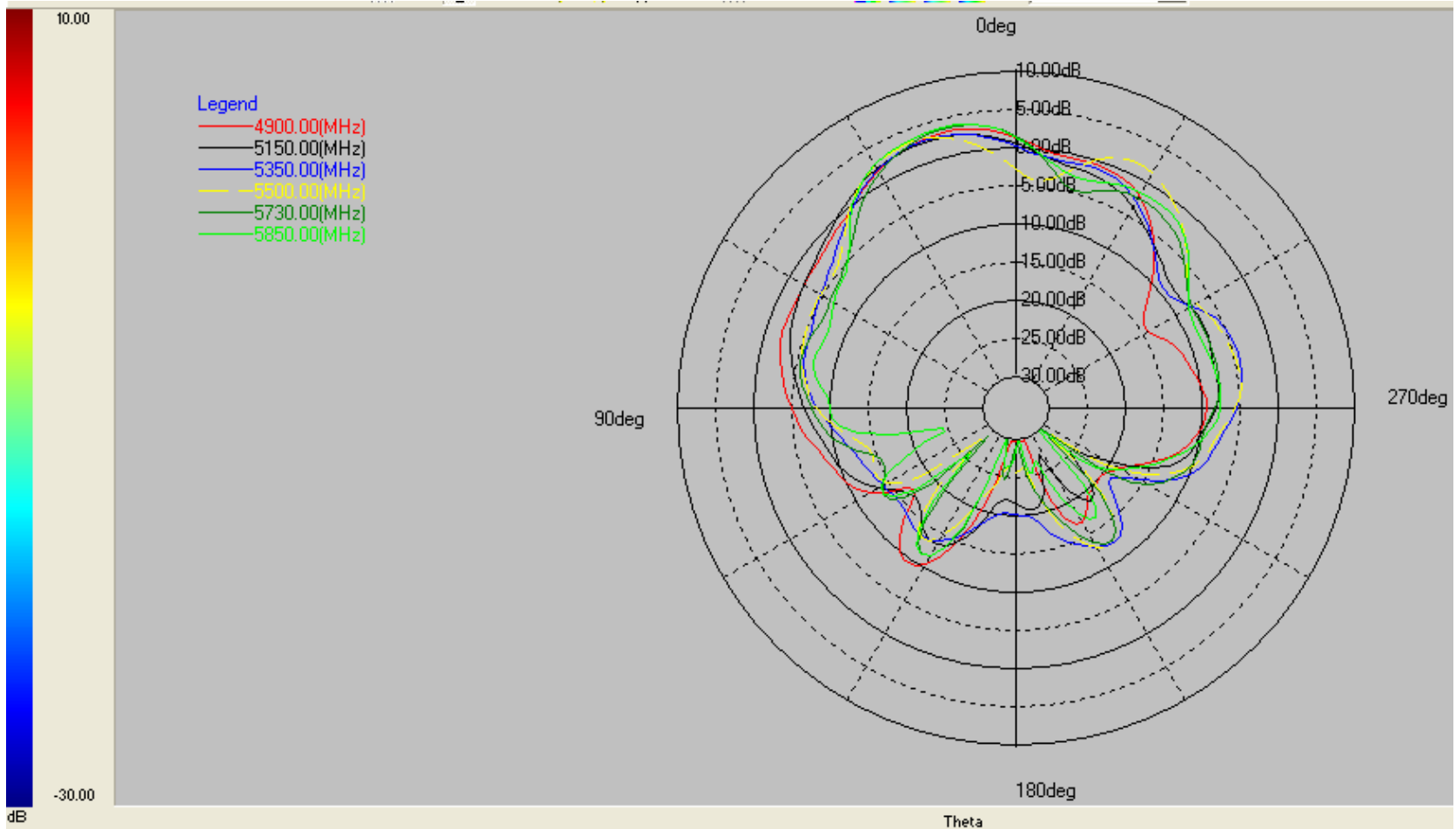


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
4900(MHz)	1.26 dB	-15.00 deg	-39.87 d...	-180.00 ...	51.19 deg	41.13 dB	-7.22 dB	11.21	----	----	----	----
5150(MHz)	1.97 dB	-18.00 deg	-40.31 dB	-162.00 ...	36.56 d...	42.28 dB	-7.89 dB	10.03	----	----	----	----
5350(MHz)	2.12 dB	-21.00 deg	-43.20 d...	-162.00 ...	38.46 d...	45.32 dB	-8.12 dB	11.71	----	----	----	----
5500(MHz)	1.94 dB	-24.00 deg	-41.15 dB	-171.00 ...	28.36 d...	43.09 dB	-8.07 dB	11.58	----	----	----	----
5730(MHz)	2.88 dB	-27.00 deg	-36.30 d...	-141.00 ...	71.71 deg	39.18 dB	-7.41 dB	10.54	----	----	----	----
5850(MHz)	4.57 dB	-27.00 deg	-40.40 d...	-114.00 ...	29.37 d...	44.97 dB	-6.79 dB	10.91	----	----	----	----



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5G-2 Elevation 2 Vertical Polarization

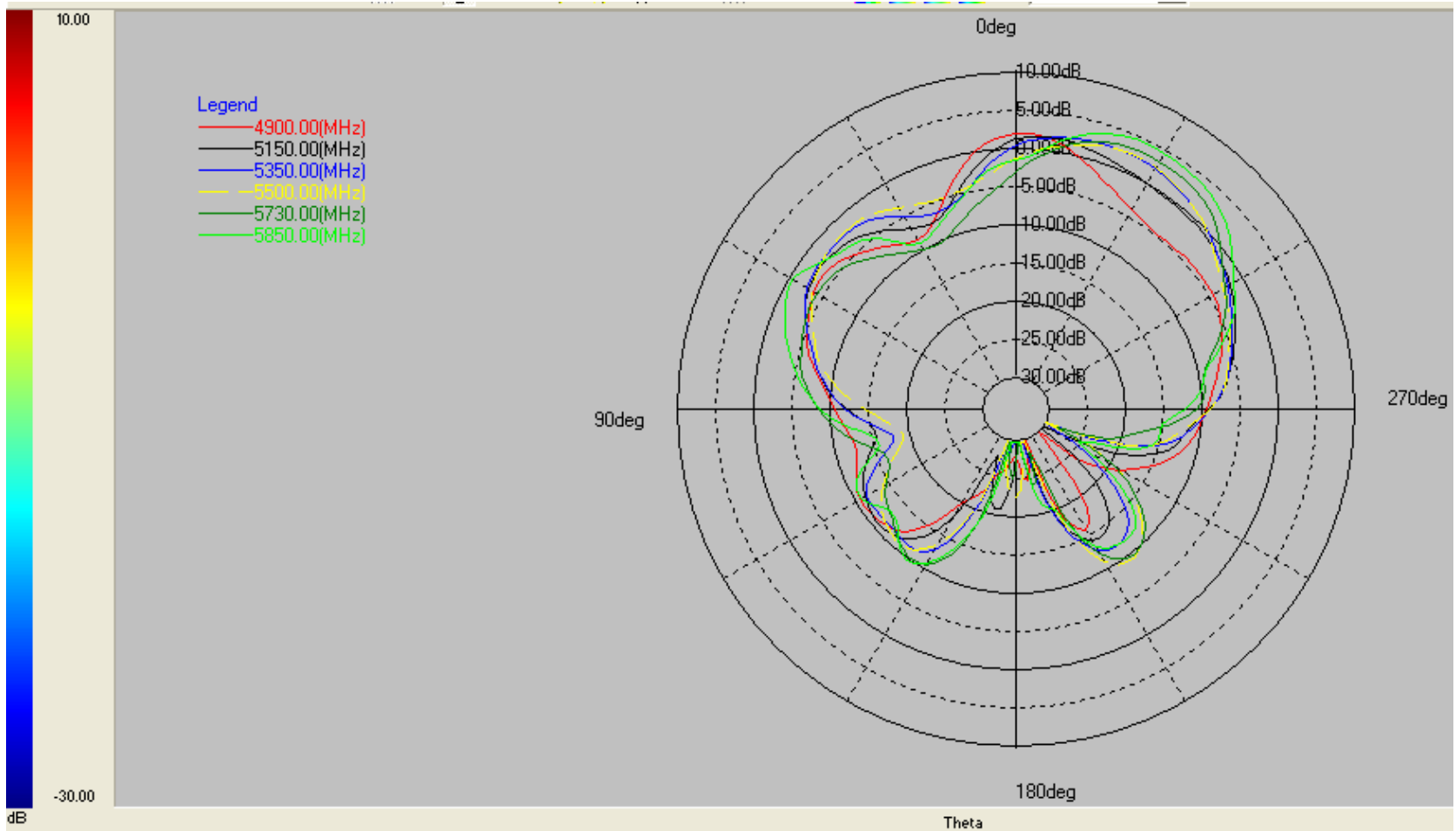


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
4900(MHz)	3.05 dB	15.00 deg	-42.39 d...	177.00 d...	42.60 d...	45.43 dB	-6.49 dB	10.77	---	---	---	---
5150(MHz)	2.49 dB	18.00 deg	-27.42 d...	-153.00 ...	50.05 d...	29.92 dB	-6.61 dB	8.31	---	---	---	---
5350(MHz)	2.76 dB	18.00 deg	-20.48 d...	177.00 d...	39.60 d...	23.25 dB	-6.44 dB	6.69	---	---	---	---
5500(MHz)	3.15 dB	21.00 deg	-29.88 d...	-129.00 ...	31.08 deg	33.04 dB	-6.43 dB	8.92	---	---	---	---
5730(MHz)	3.52 dB	15.00 deg	-37.51 dB	162.00 d...	35.57 d...	41.03 dB	-6.94 dB	9.00	---	---	---	---
5850(MHz)	3.74 dB	15.00 deg	-31.79 dB	-177.00 ...	37.93 d...	35.53 dB	-7.09 dB	9.91	---	---	---	---



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5G-2 Elevation 2 Horizontal Polarization

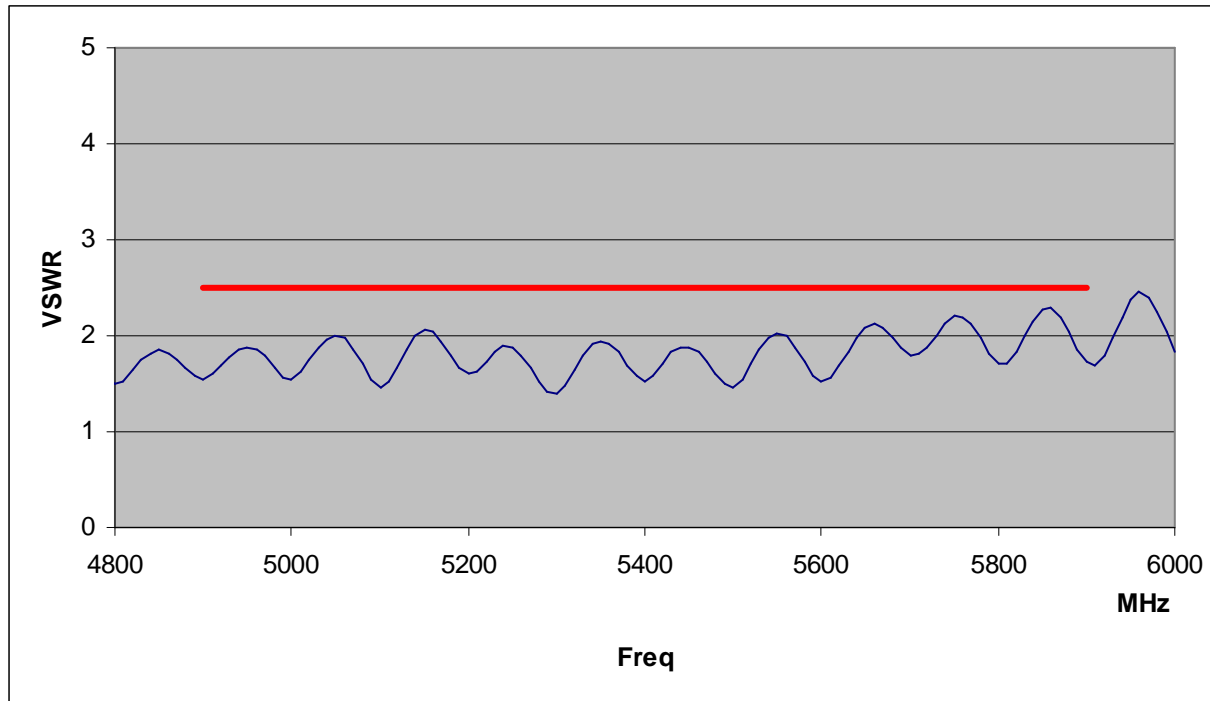


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
4900(MHz)	1.94 dB	-3.00 deg	-43.92 d...	-135.00 ...	27.90 d...	45.86 dB	-8.17 dB	9.02	----	----	----	----
5150(MHz)	1.61 dB	-6.00 deg	-34.58 d...	-168.00 ...	64.59 d...	36.19 dB	-7.15 dB	9.38	----	----	----	----
5350(MHz)	2.33 dB	-24.00 deg	-46.37 d...	-174.00 ...	53.85 d...	48.70 dB	-6.69 dB	10.53	----	----	----	----
5500(MHz)	2.44 dB	-27.00 deg	-46.84 d...	-168.00 ...	45.45 d...	49.28 dB	-6.82 dB	9.50	----	----	----	----
5730(MHz)	3.24 dB	-27.00 deg	-38.88 d...	-174.00 ...	41.47 deg	42.12 dB	-7.21 dB	9.12	----	----	----	----
5850(MHz)	4.45 dB	-27.00 deg	-41.76 dB	174.00 d...	41.90 deg	46.22 dB	-5.96 dB	10.07	----	----	----	----

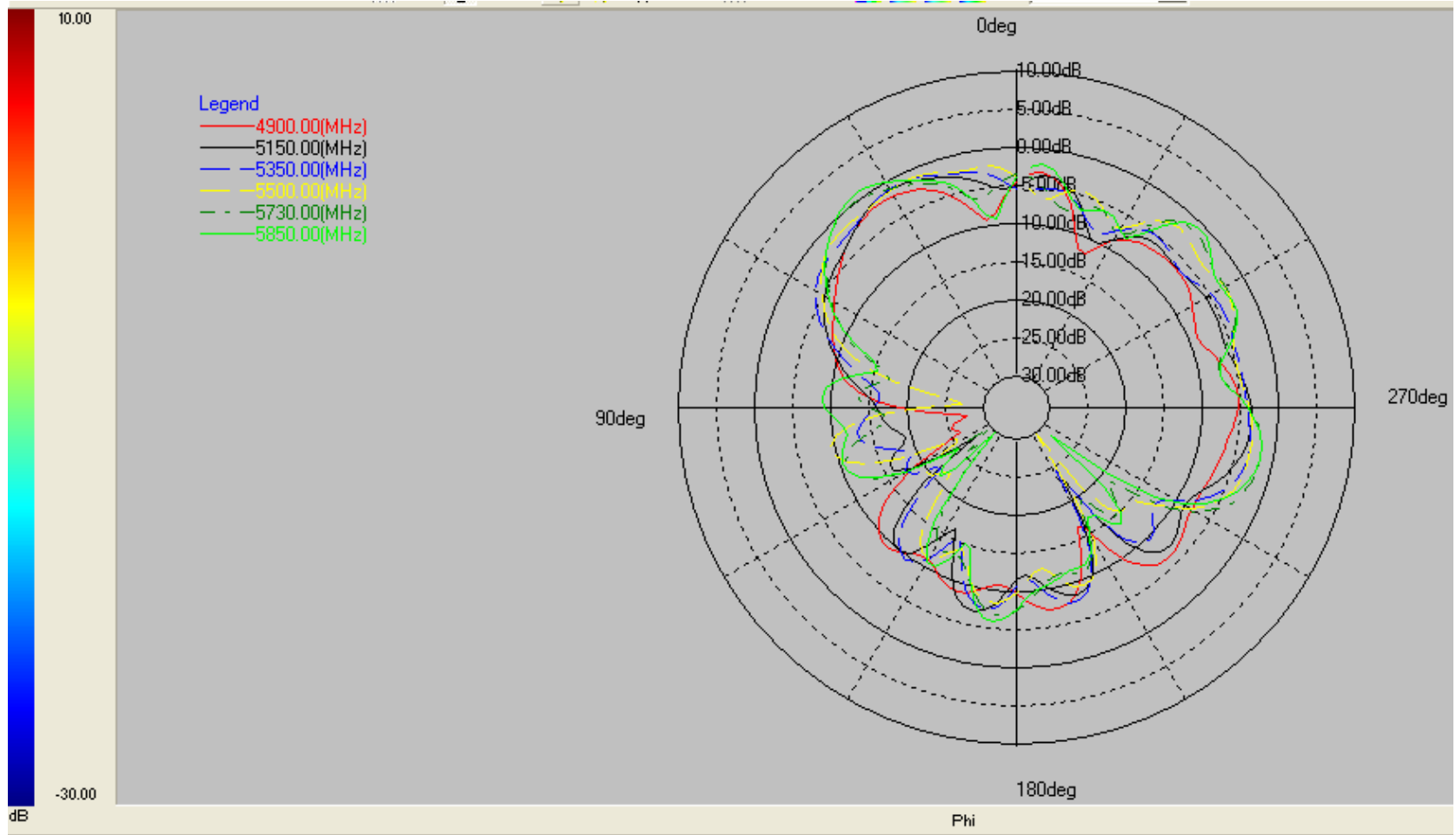


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5G-3 VSWR



5G-3 Azimuth Vertical Polarization

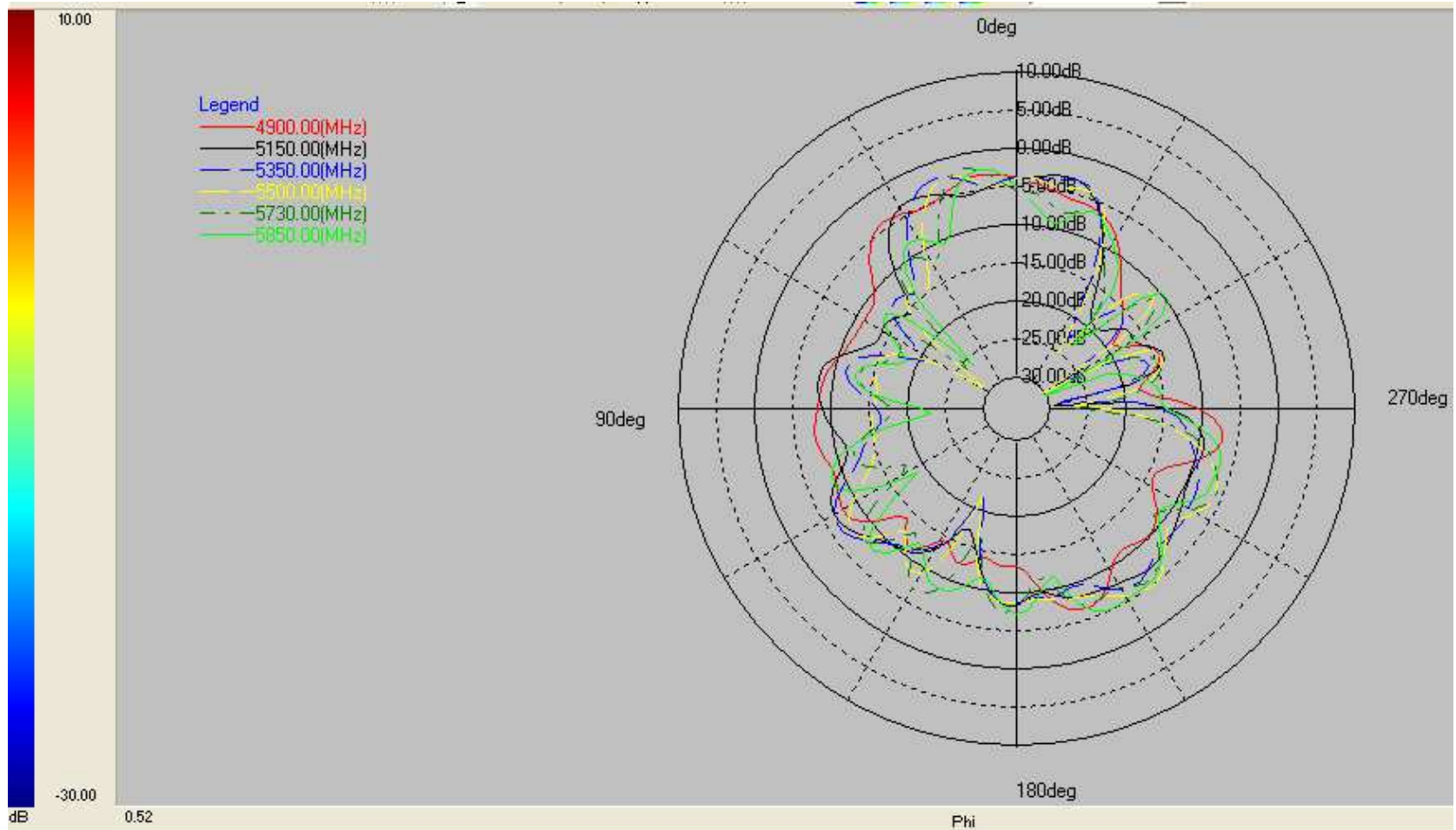


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
4900(MHz)	-2.07 dB	33.00 deg	-27.82 d...	99.00 d...	35.45 d...	25.76 dB	-8.11 dB	5.62	---	---	---	---
5150(MHz)	-1.31 dB	30.00 deg	-27.75 d...	126.00 d...	43.20 d...	26.45 dB	-7.45 dB	5.26	---	---	---	---
5350(MHz)	-1.01 dB	27.00 deg	-24.57 d...	213.00 d...	55.13 deg	23.56 dB	-7.19 dB	5.25	---	---	---	---
5500(MHz)	-1.14 dB	24.00 deg	-30.12 dB	216.00 d...	---	28.99 dB	-7.01 dB	6.86	---	---	---	---
5730(MHz)	0.00 dB	39.00 deg	-36.10 dB	126.00 d...	32.65 d...	36.10 dB	-7.07 dB	7.02	---	---	---	---
5850(MHz)	0.84 dB	36.00 deg	-33.19 dB	138.00 d...	28.97 d...	34.03 dB	-6.72 dB	6.55	---	---	---	---



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5G-3 Azimuth Horizontal Polarization

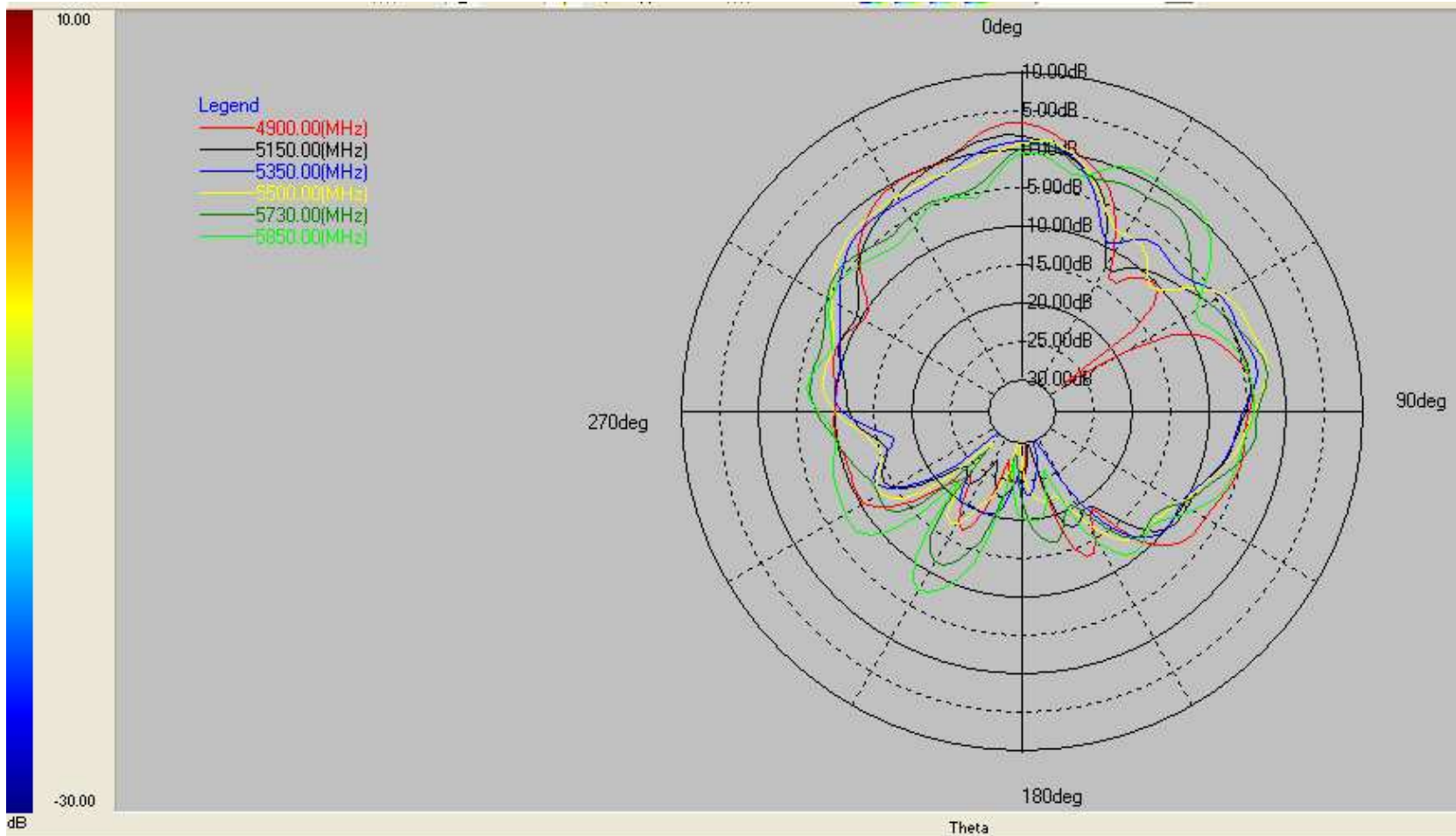


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
4900(MHz)	-3.25 dB	9.00 deg	-19.25 dB	303.00 ...	----	16.01 dB	-9.29 dB	3.79	----	----	----	----
5150(MHz)	-3.08 dB	348.00 deg	-29.30 d...	276.00 ...	----	26.21 dB	-9.34 dB	4.78	----	----	----	----
5350(MHz)	-2.37 dB	21.00 deg	-28.40 d...	279.00 ...	----	26.03 dB	-10.05 dB	5.76	----	----	----	----
5500(MHz)	-2.69 dB	18.00 deg	-40.17 dB	300.00 ...	----	37.48 dB	-10.10 dB	6.38	----	----	----	----
5730(MHz)	-2.03 dB	12.00 deg	-26.61 dB	270.00 ...	16.81 deg	24.57 dB	-10.40 dB	5.09	----	----	----	----
5850(MHz)	-2.52 dB	9.00 deg	-30.02 d...	294.00 ...	----	27.50 dB	-10.10 dB	5.18	----	----	----	----



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5G-3 Elevation 1 Vertical Polarization

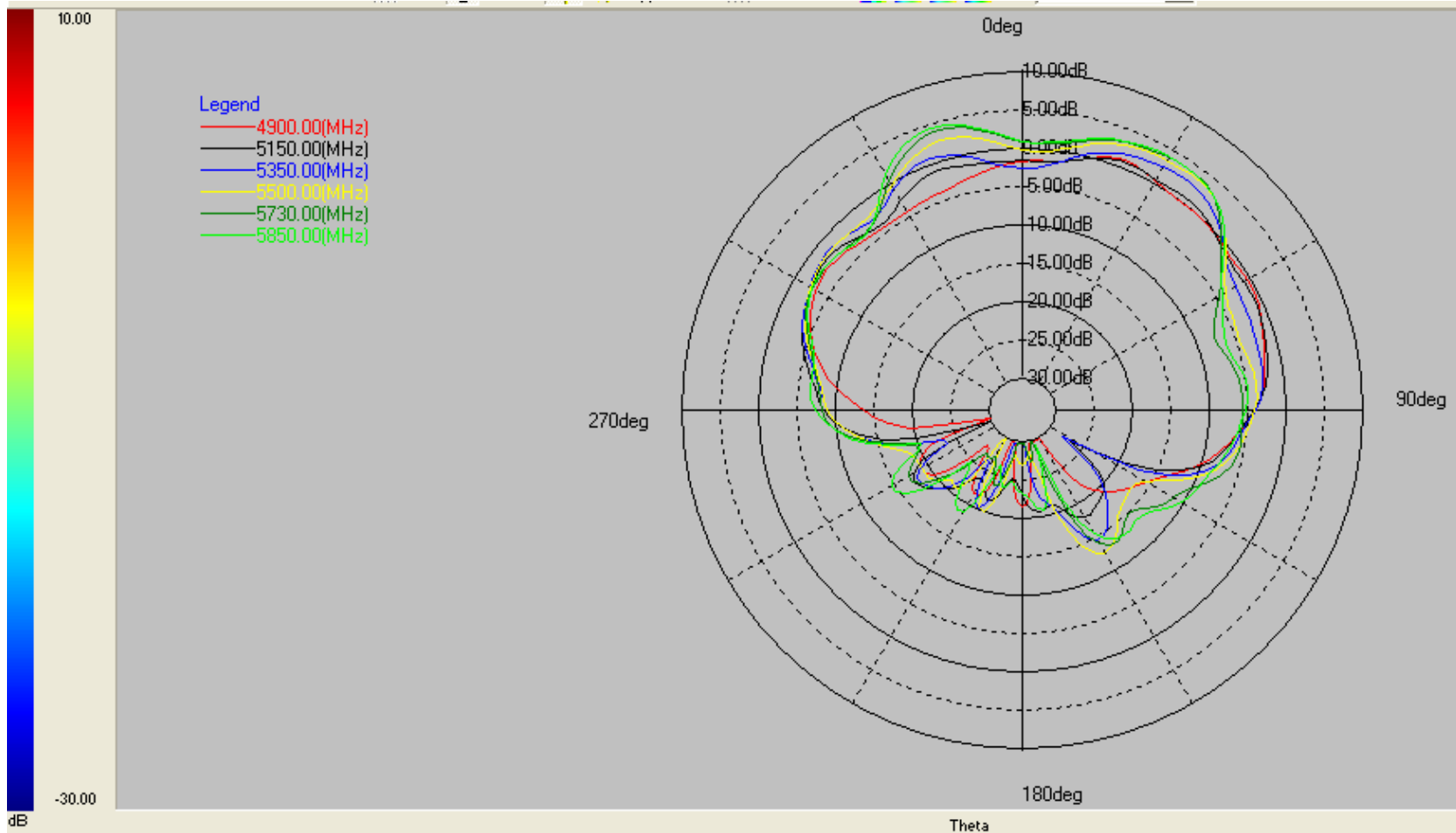


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
4900(MHz)	3.32 dB	-3.00 deg	-39.44 d...	171.00 d...	27.08 d...	42.76 dB	-7.39 dB	8.70	----	----	----	----
5150(MHz)	1.81 dB	-3.00 deg	-34.13 dB	171.00 d...	39.04 d...	35.94 dB	-8.23 dB	8.59	----	----	----	----
5350(MHz)	0.86 dB	0.00 deg	-40.14 dB	-135.00 ...	35.76 d...	41.00 dB	-8.01 dB	8.87	----	----	----	----
5500(MHz)	1.04 dB	3.00 deg	-35.65 d...	-174.00 ...	49.09 d...	36.69 dB	-7.52 dB	8.45	----	----	----	----
5730(MHz)	0.60 dB	3.00 deg	-28.73 d...	-171.00 ...	23.68 d...	29.33 dB	-7.07 dB	6.87	----	----	----	----
5850(MHz)	0.68 dB	27.00 deg	-27.54 d...	-171.00 ...	34.94 d...	28.22 dB	-6.68 dB	6.38	----	----	----	----



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5G-3 Elevation 1 Horizontal Polarization

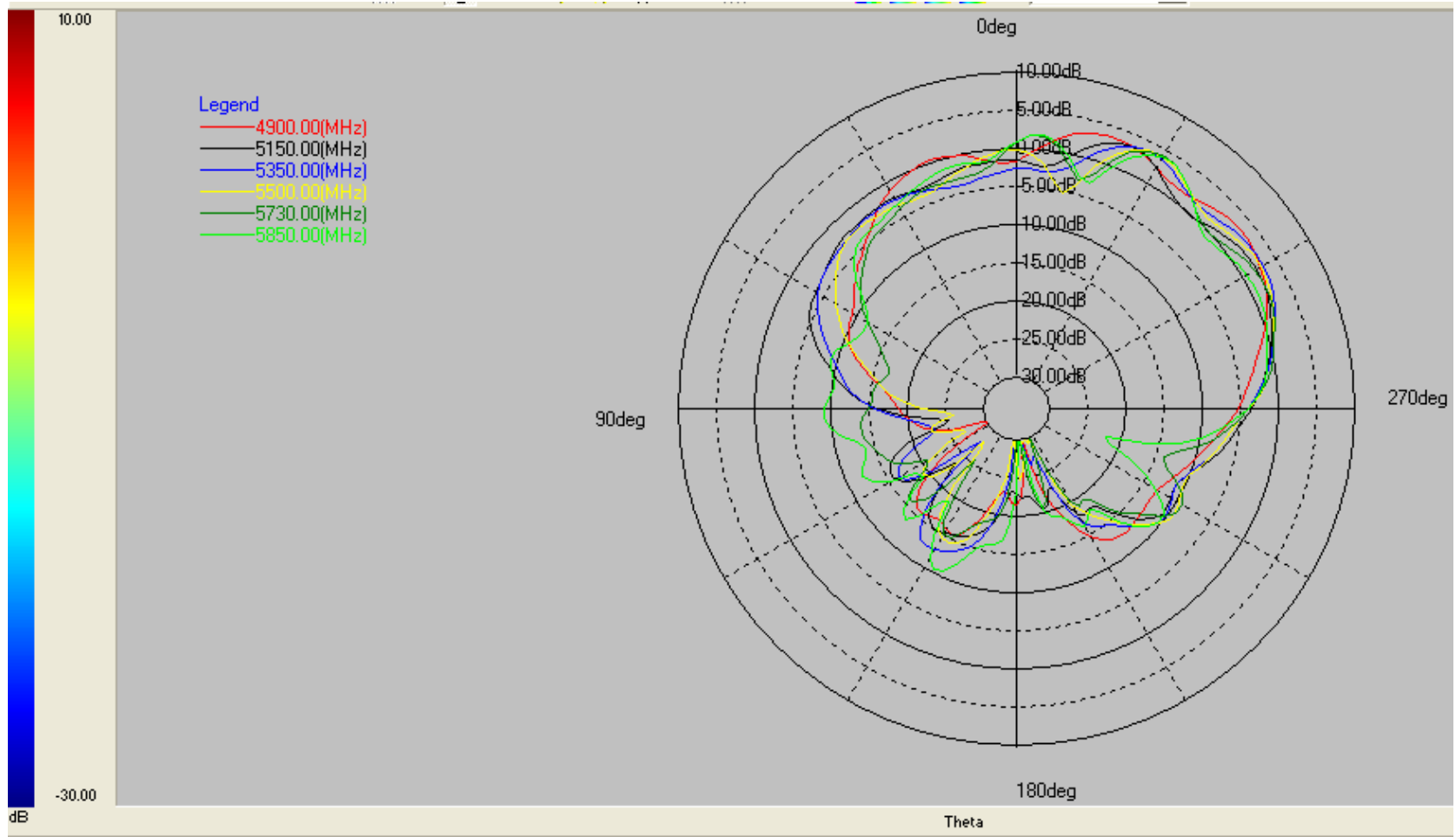


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
4900(MHz)	0.86 dB	24.00 deg	-37.37 d...	165.00 d...	82.54 d...	38.22 dB	-7.19 dB	11.24	---	---	---	---
5150(MHz)	0.67 dB	39.00 deg	-31.37 dB	-111.00 d...	111.76 deg	32.03 dB	-6.44 dB	9.54	---	---	---	---
5350(MHz)	2.57 dB	36.00 deg	-41.57 dB	-180.00 ...	38.36 d...	44.14 dB	-6.04 dB	11.36	---	---	---	---
5500(MHz)	3.53 dB	36.00 deg	-30.54 d...	-150.00 ...	39.19 deg	34.07 dB	-5.29 dB	10.01	---	---	---	---
5730(MHz)	3.98 dB	36.00 deg	-34.72 d...	-180.00 ...	38.21 deg	38.70 dB	-5.23 dB	11.07	---	---	---	---
5850(MHz)	4.38 dB	-18.00 deg	-29.43 d...	159.00 d...	26.33 d...	33.81 dB	-4.89 dB	9.48	---	---	---	---



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5G-3 Elevation 2 Vertical Polarization

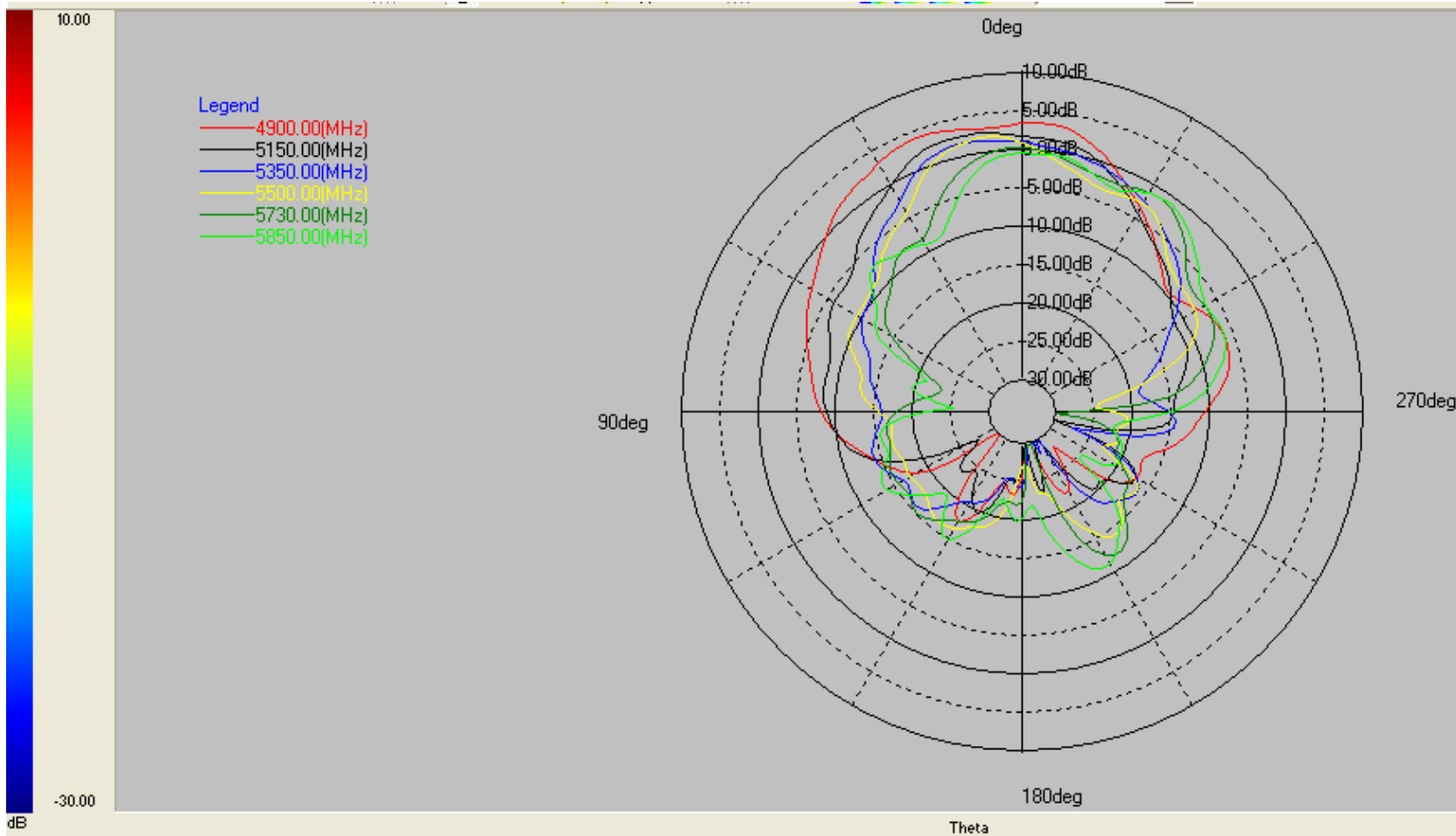


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
4900(MHz)	3.56 dB	-21.00 deg	-39.92 d...	114.00 d...	63.62 d...	43.48 dB	-5.82 dB	10.08	---	---	---	---
5150(MHz)	3.30 dB	-24.00 deg	-25.30 d...	99.00 d...	22.68 d...	28.60 dB	-5.75 dB	8.78	---	---	---	---
5350(MHz)	3.72 dB	-27.00 deg	-41.57 dB	-180.00 ...	57.33 d...	45.29 dB	-5.73 dB	10.39	---	---	---	---
5500(MHz)	3.83 dB	-30.00 deg	-38.02 d...	-168.00 ...	53.64 d...	41.85 dB	-6.16 dB	10.86	---	---	---	---
5730(MHz)	4.08 dB	-30.00 deg	-55.05 d...	-156.00 ...	19.77 deg	59.13 dB	-6.45 dB	10.20	---	---	---	---
5850(MHz)	3.88 dB	-30.00 deg	-35.31 dB	-174.00 ...	18.63 deg	39.20 dB	-6.09 dB	8.18	---	---	---	---



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5G-3 Elevation 2 Horizontal Polarization



Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
4900(MHz)	3.86 dB	21.00 deg	-41.58 dB	-171.00 ...	62.02 d...	45.45 dB	-6.36 dB	11.35	----	----	----	----
5150(MHz)	2.49 dB	12.00 deg	-37.16 dB	-166.00 ...	49.15 deg	39.65 dB	-8.52 dB	10.20	----	----	----	----
5350(MHz)	1.45 dB	15.00 deg	-39.56 d...	-165.00 ...	51.55 deg	41.01 dB	-9.58 dB	9.29	----	----	----	----
5500(MHz)	1.80 dB	9.00 deg	-27.56 d...	-177.00 ...	30.55 d...	29.36 dB	-9.82 dB	7.78	----	----	----	----
5730(MHz)	0.09 dB	0.00 deg	-40.63 d...	-171.00 ...	59.14 deg	40.72 dB	-10.27 dB	8.52	----	----	----	----
5850(MHz)	-0.66 dB	-6.00 deg	-25.38 d...	87.00 d...	60.92 d...	24.72 dB	-9.93 dB	7.23	----	----	----	----



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Peak Gain by Antenna/Polarization

	Peak dBi					
	2.4G-1		2.4G-2		2.4G-3	
	V	H	V	H	V	H
2400	3.5	-0.49	3.18	3.54	3.78	-0.56
2400	2.64	0.32	1.86	1.69	3.93	0.43
2483	4.45	-0.65	2.44	2.26	3.81	0.7
	5G-1		5G-2		5G-3	
	V	H	V	H	V	H
4900	3.25	1.78	3.05	1.94	3.56	3.86
5150	1.92	1.22	2.49	1.97	3.3	2.49
5350	2.29	2.11	2.76	2.33	3.72	2.57
5500	1.66	1.08	3.15	2.44	3.83	3.53
5725	2.89	0.97	3.52	3.24	4.08	3.98
5850	1.76	1.33	3.74	4.57	3.88	4.38



Overall Peak Gain

Freq MHz	Gain dB
2400	3.78
2440	3.93
2485	4.45
4900	3.86
5150	3.72
5350	3.72
5500	3.83
5725	4.08
5850	4.57

