



深圳市海德门电子有限公司

ShenZhen Deman Electronics Technology Co., Ltd

Antenna Test Report

For

AP3880P 4in1 Antenna

Supplier: ShenZhen Deman Electronics Technology Co., Ltd

Address: 3rd Floor, Building C, Shunluo Industrial Park, Dafuyuan
Industrial Zone, Guanlan Sub-district, Longhua New District, Shenzhen
City

Customer	ID TECH	Project	AP3880P
Band	GPS/WIFI2.4G&5G /BT	Color	Black
PRS PN	Deman	Version	V1.0
Issued by		Checked by	
Confirmed by		Date	2022.05.15

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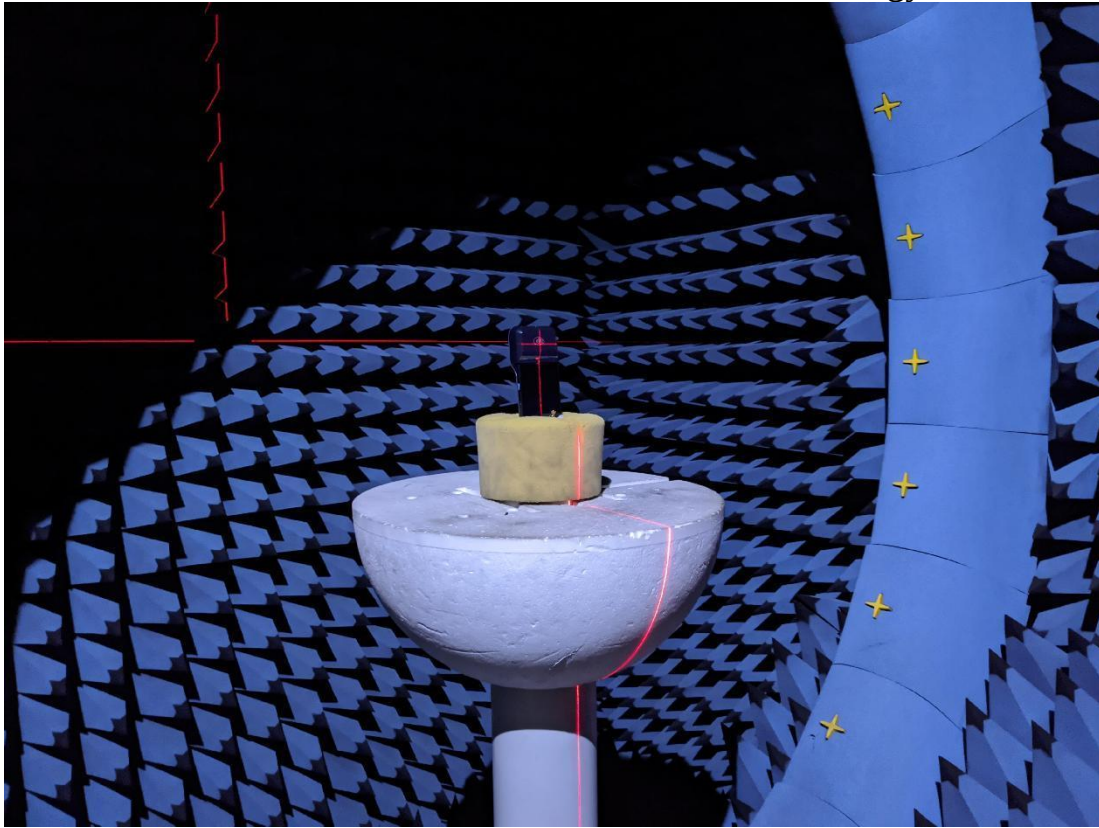
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A.TEST INSTRUMENTATION

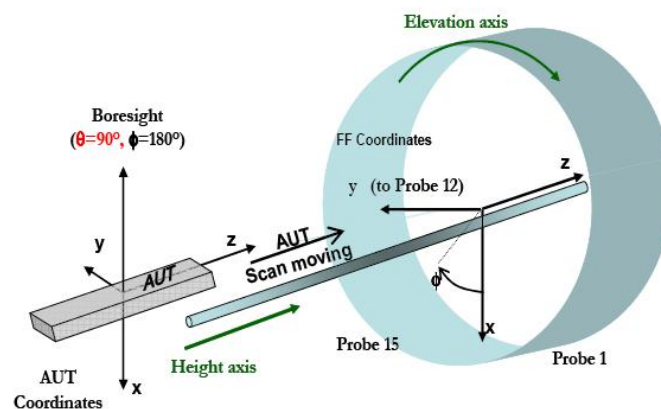
CHAMBER	SATIMO Chamber
Wireless Networking Test Set	Agilent 8960 5515C
NETWORK ANALYZER	Agilent 5072AD
COMPREHENSIVE TESTER	R&S CMW500
TEMPERATURE	20±2℃
HUMIDITY	50±20%rh



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Coordinate system – Cylindrical geometry

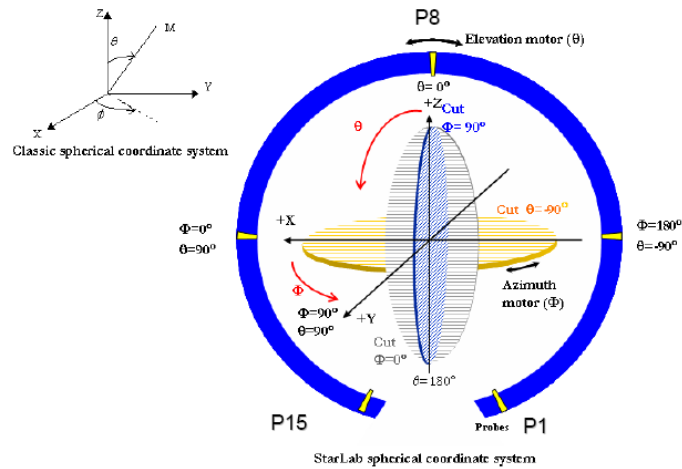


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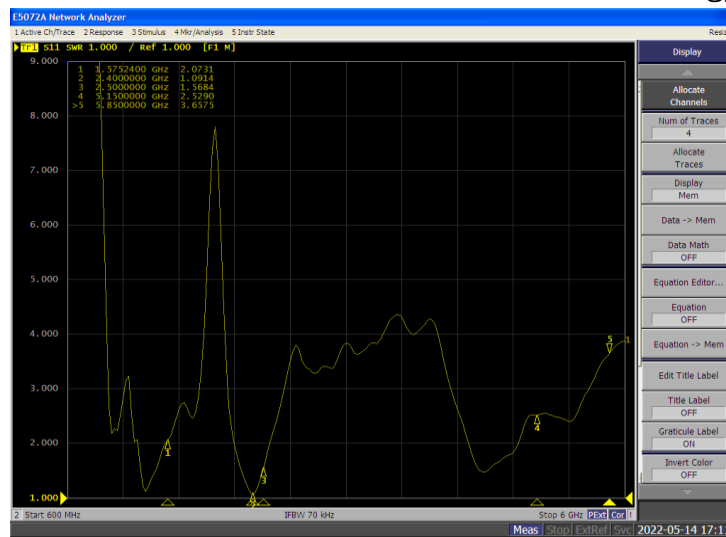
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Coordinate system – Spherical geometry



B. Definitions

VSWR: Voltage Standing Wave Rate

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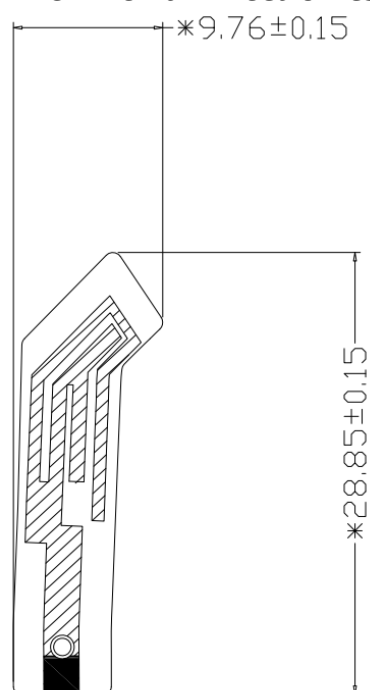
TRP: total radiated power

TIS: total isotropic sensitivity

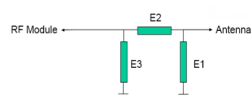
C. Cell-Phone Photo and Dealing Method



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D. Matching Circuit Description



Element	Value
E1(0402)	/
E2(0402)	0Ω
E3(0402)	/

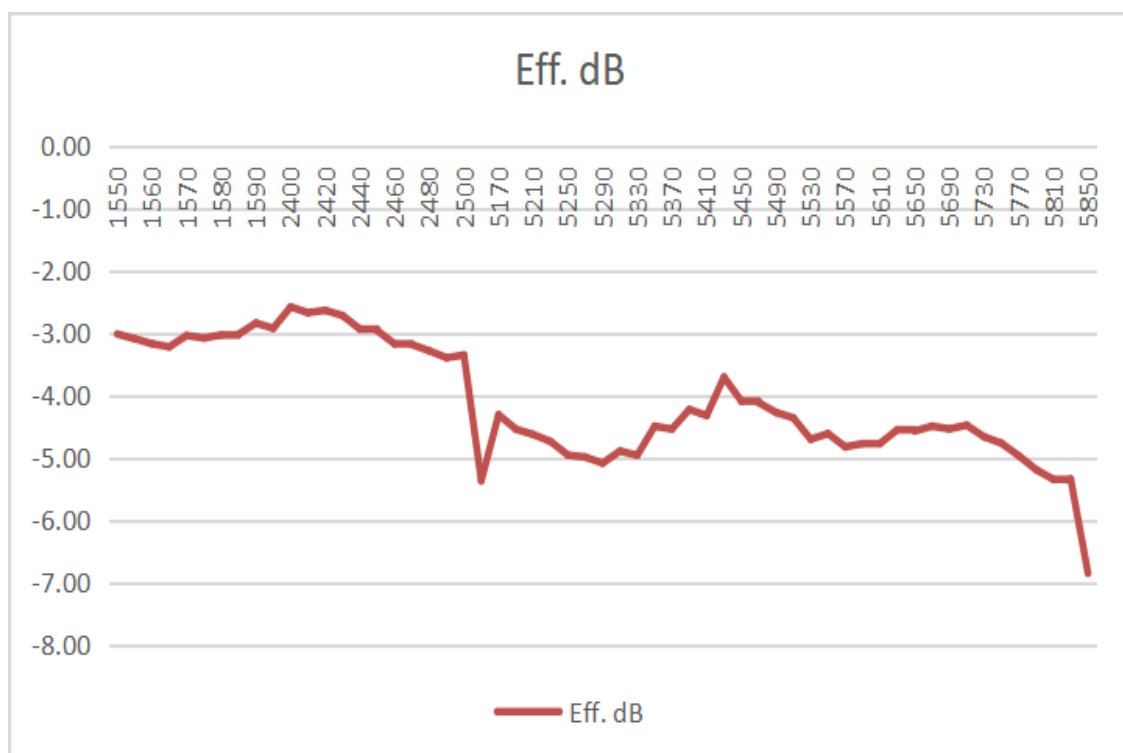


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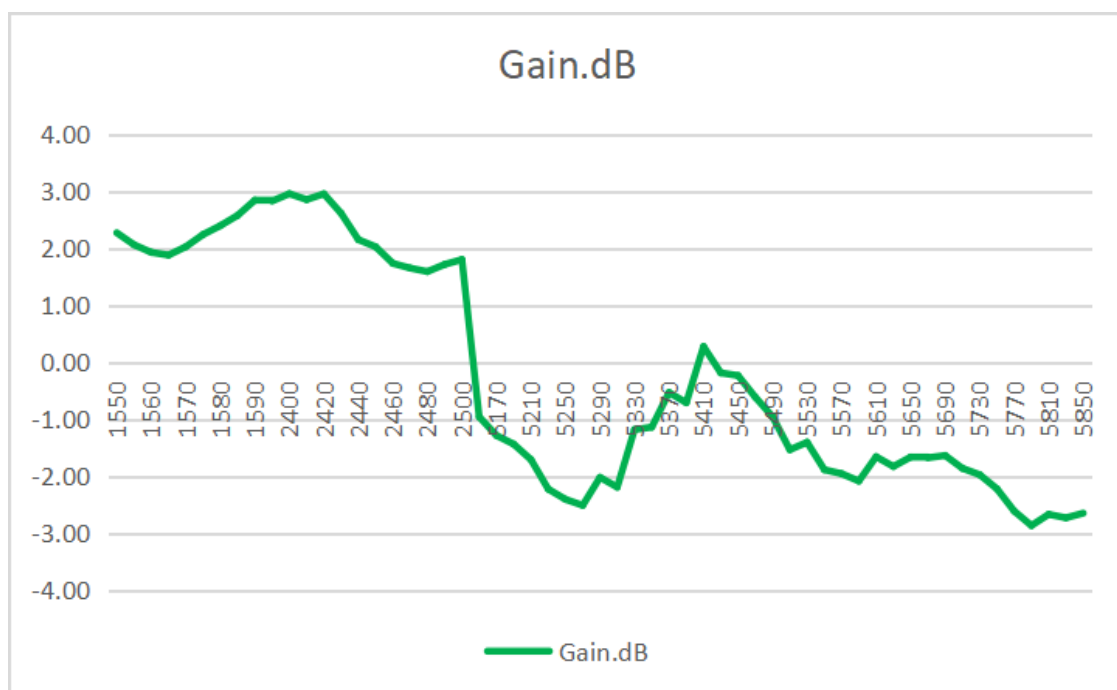
E.Cell-phone cable test (Conduct at the test hole and set the line loss as 0)

Efficiency test results



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Gain test results



Efficiency&Gain test dataset

Fre. (Mhz)	Eff. %	Eff. dB	Gain. dBi	Fre. (Mhz)	Eff. %	Eff. dB	Gain. dBi
1550	50%	-3.02	2.27	5150	29%	-5.37	-0.96
1555	49%	-3.09	2.06	5170	37%	-4.31	-1.29
1560	48%	-3.17	1.93	5190	35%	-4.54	-1.44
1565	48%	-3.22	1.88	5210	34%	-4.63	-1.71
1570	50%	-3.04	2.03	5230	34%	-4.74	-2.23
1575	49%	-3.08	2.24	5250	32%	-4.96	-2.41
1580	50%	-3.03	2.39	5270	32%	-4.99	-2.51
1585	50%	-3.02	2.57	5290	31%	-5.09	-2.02
1590	52%	-2.84	2.84	5310	32%	-4.89	-2.19
1595	51%	-2.93	2.83	5330	32%	-4.96	-1.18
2400	55%	-2.58	2.96	5350	36%	-4.50	-1.14
2410	54%	-2.68	2.85	5370	35%	-4.54	-0.53
2420	54%	-2.64	2.95	5390	38%	-4.23	-0.71
2430	53%	-2.72	2.61	5410	37%	-4.32	0.27
2440	51%	-2.94	2.15	5430	43%	-3.71	-0.19
2450	51%	-2.96	2.02	5450	39%	-4.09	-0.24
2460	48%	-3.18	1.73	5470	39%	-4.12	-0.61
2470	48%	-3.19	1.65	5490	37%	-4.27	-0.96

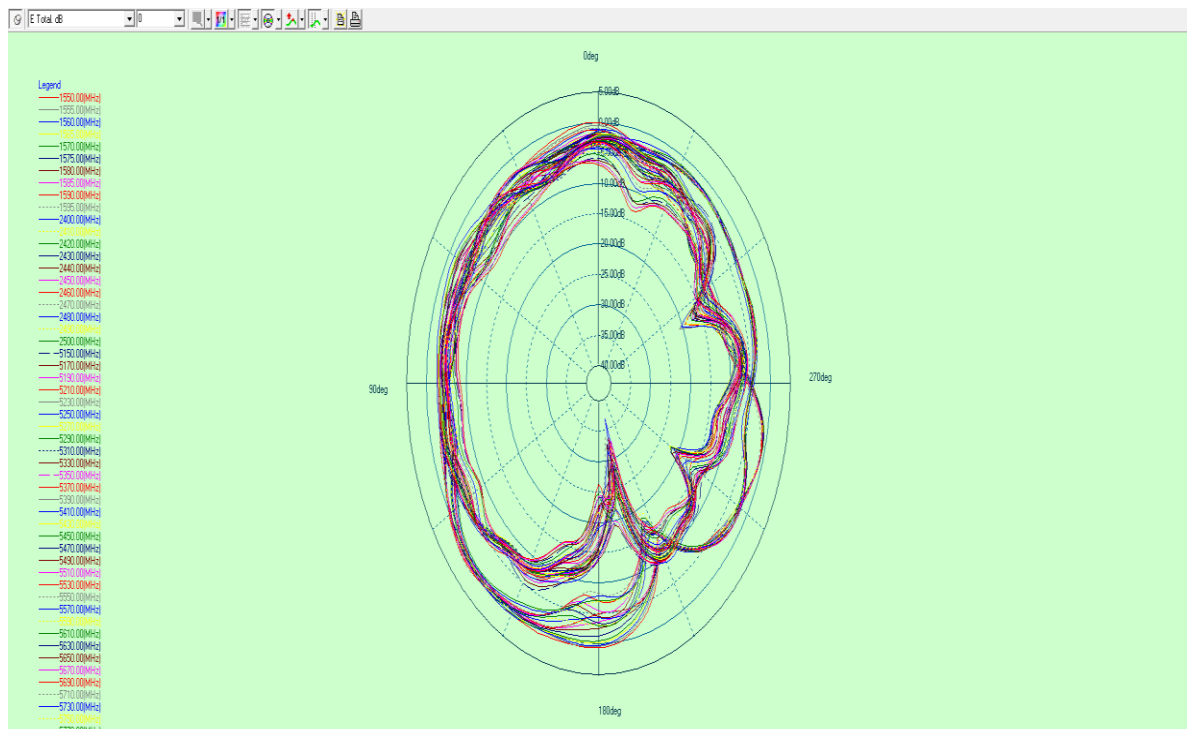
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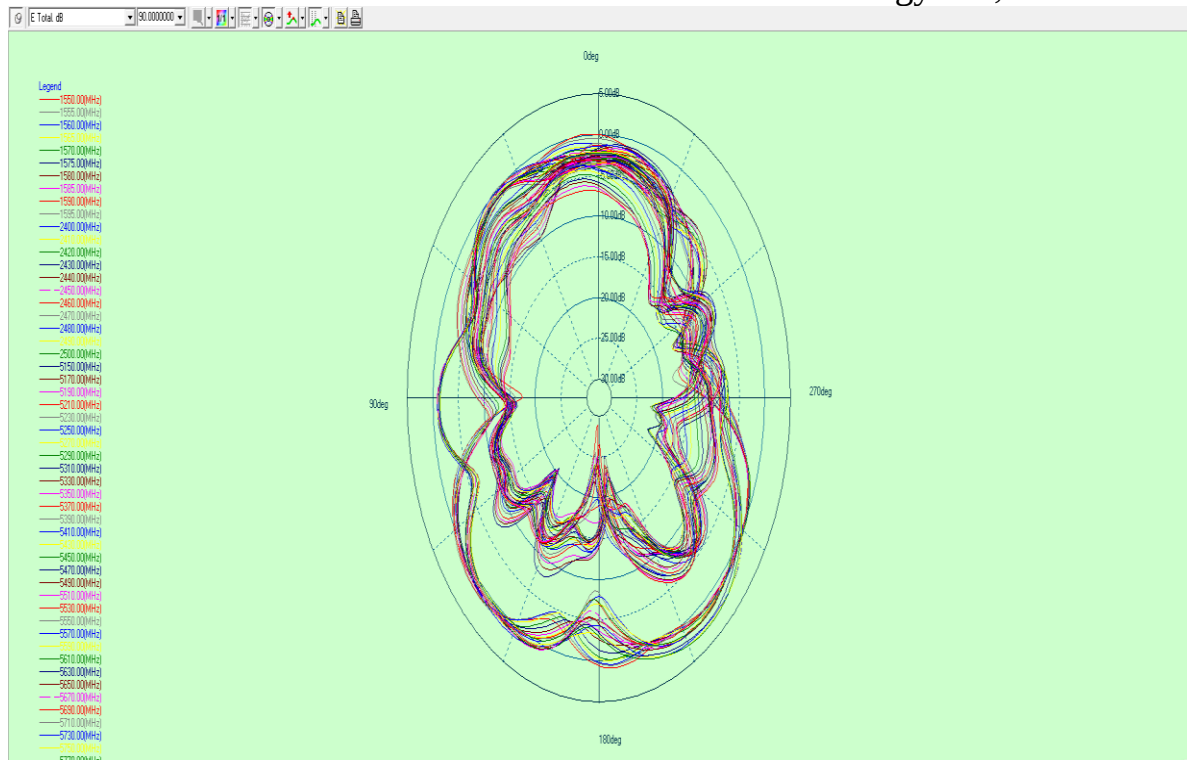
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2480	47%	-3.29	1.59	5510	37%	-4.36	-1.54
2490	46%	-3.40	1.71	5530	34%	-4.70	-1.41
2500	46%	-3.35	1.80	5550	35%	-4.61	-1.89
				5570	33%	-4.83	-1.96
				5590	33%	-4.78	-2.09
				5610	33%	-4.77	-1.66
				5630	35%	-4.55	-1.83
				5650	35%	-4.57	-1.67
				5670	36%	-4.50	-1.68
				5690	35%	-4.54	-1.64
				5710	36%	-4.48	-1.86
				5730	34%	-4.66	-1.98
				5750	33%	-4.77	-2.22
				5770	32%	-4.97	-2.61
				5790	30%	-5.19	-2.87
				5810	29%	-5.35	-2.67
				5830	29%	-5.34	-2.73
				5850	21%	-6.85	-2.65

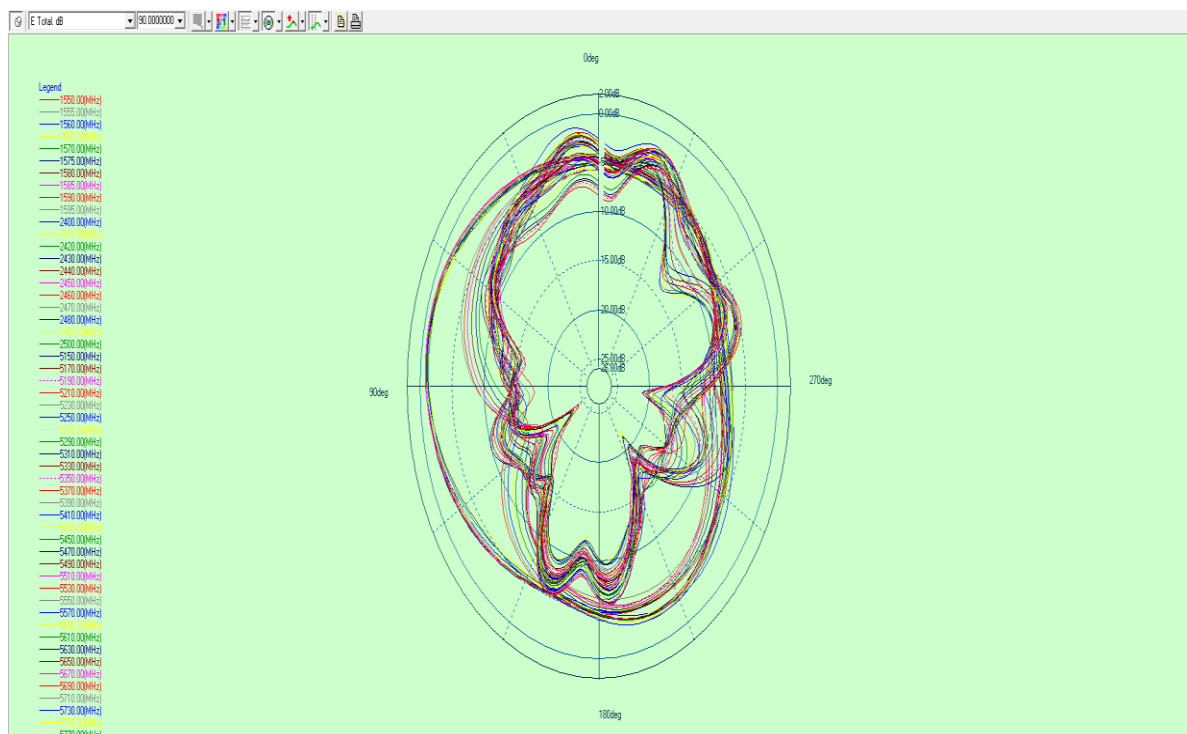


Pi=0

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Pi=90



Theta=90

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