

SPECIFICATION

Reliance Communications LLC

Orbic Style 5G Antenna

Product approval sheet

Customer	Orbic	Band	5G FR1: N2/5/48/66/77/78 4G: B2/B4/B5/B12/B13/B66/B48 3G: B2/B4/B5 2G: B2/B5 WIFI2.4G&5G&BT
Project	2ABGH-R678L5S	Colour	Black

Customer check:

Reach requirement of customer: OK NG

Confidential Information

Contents

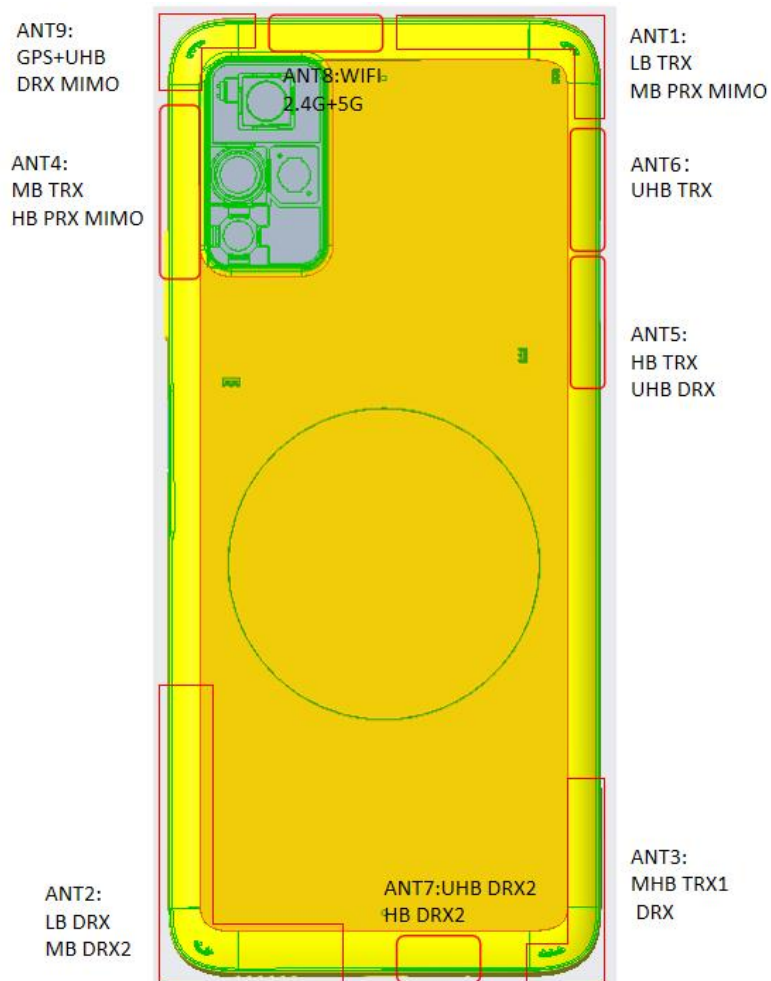
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1 General description

1.1 information of DUT

Set Type	Smart phone
Dimension	205.8 * 128 * 9.25mm
Band	5G FR1: N2/5/48/66/77/78 4G: B2/B4/B5/B12/B13/B66/B48, 4G: B1/B3/B5/B7 3G: B2/B4/B5/B8/B1 2G: B2/B3/B5/B8 WIFI2.4G&5G&BT GPS
Antenna Material	LDS

1.2 Photo of DUT



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Antenna Location	Support Function	Top Side (mm)	BottomSide (mm)	Left Side (mm)	Right Side (mm)	Front Side (mm)	Back Side (mm)
ANT1	LB TRX MB PRX MIMO	1	150	1	36.1	1.8	1
ANT2	LB DRX MB DRX2	125.1	1	46.6	1	1.8	1
ANT3	MHB TRX1 DRX	145.5	1	1	62.6	1.8	1
ANT4	MB TRX HB PRX MIMO	13.1	129.5	66	3	1.8	1
ANT5	HB TRX UHB DRX	44	110.4	3	72.1	1.8	1
ANT6	UHB TRX	21	131.5	3	70.4	1.8	1
ANT7	UHB DRX2 HB DRX2	168	1	25	33.1	1.8	1
ANT8	WIFI 2.4G+5G	3	164.7	43.3	20.5	1.8	1
ANT9	GPS+UHB DRX MIMO	3	162.4	61.3	3.7	1.8	1

Antenna location

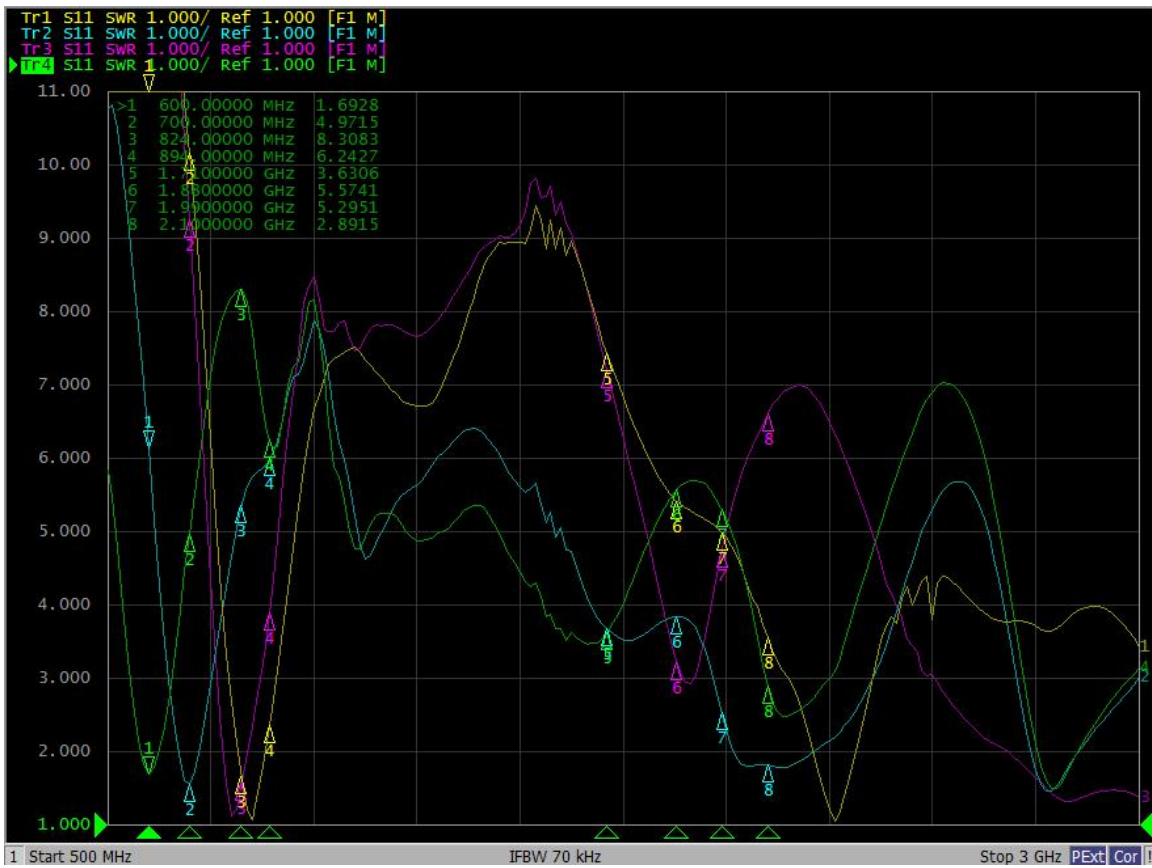
2 Electrical performance

2.1 Passive result

VSWR & Return Loss

VSWR & Return Loss test connector: R&S ZVL network analyzer → Cable → JIG

ANT1



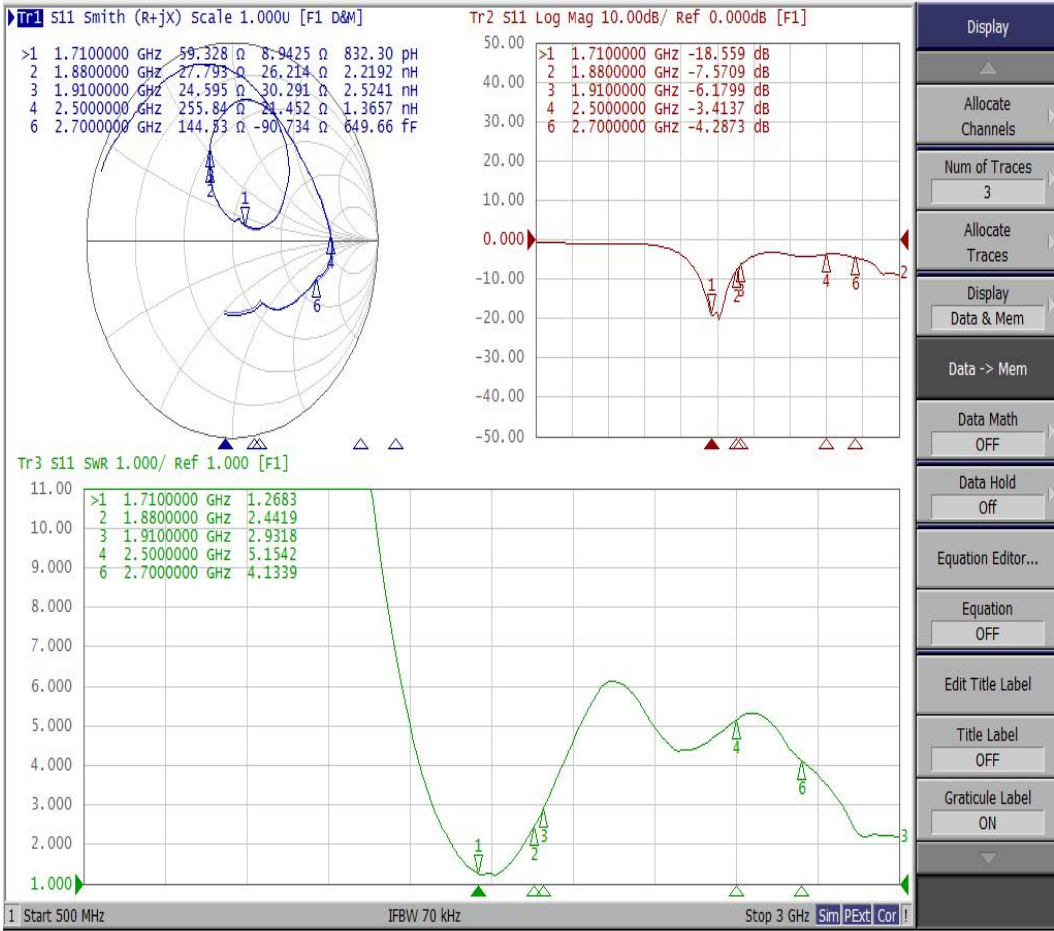
ANT2



ANT3

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize

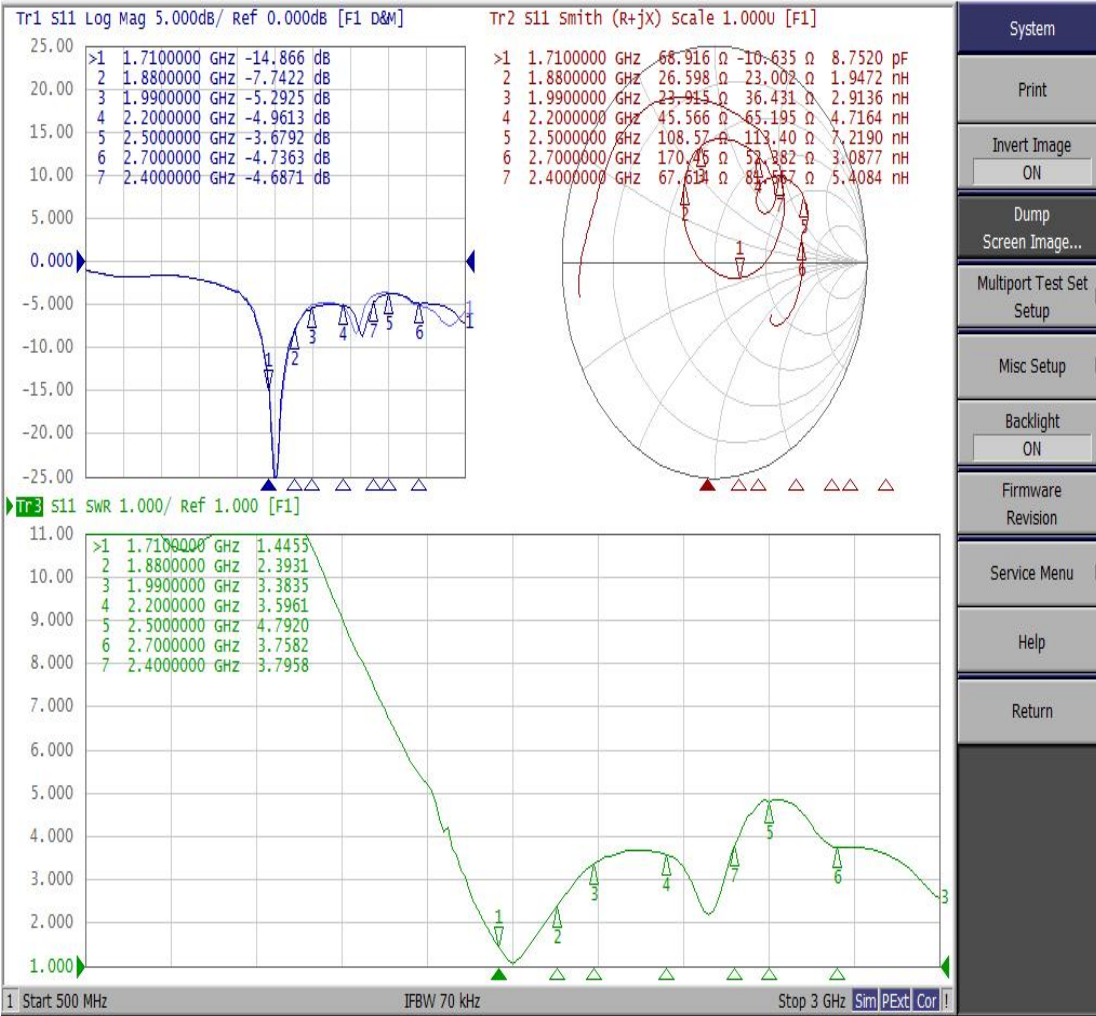


ANT4

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize



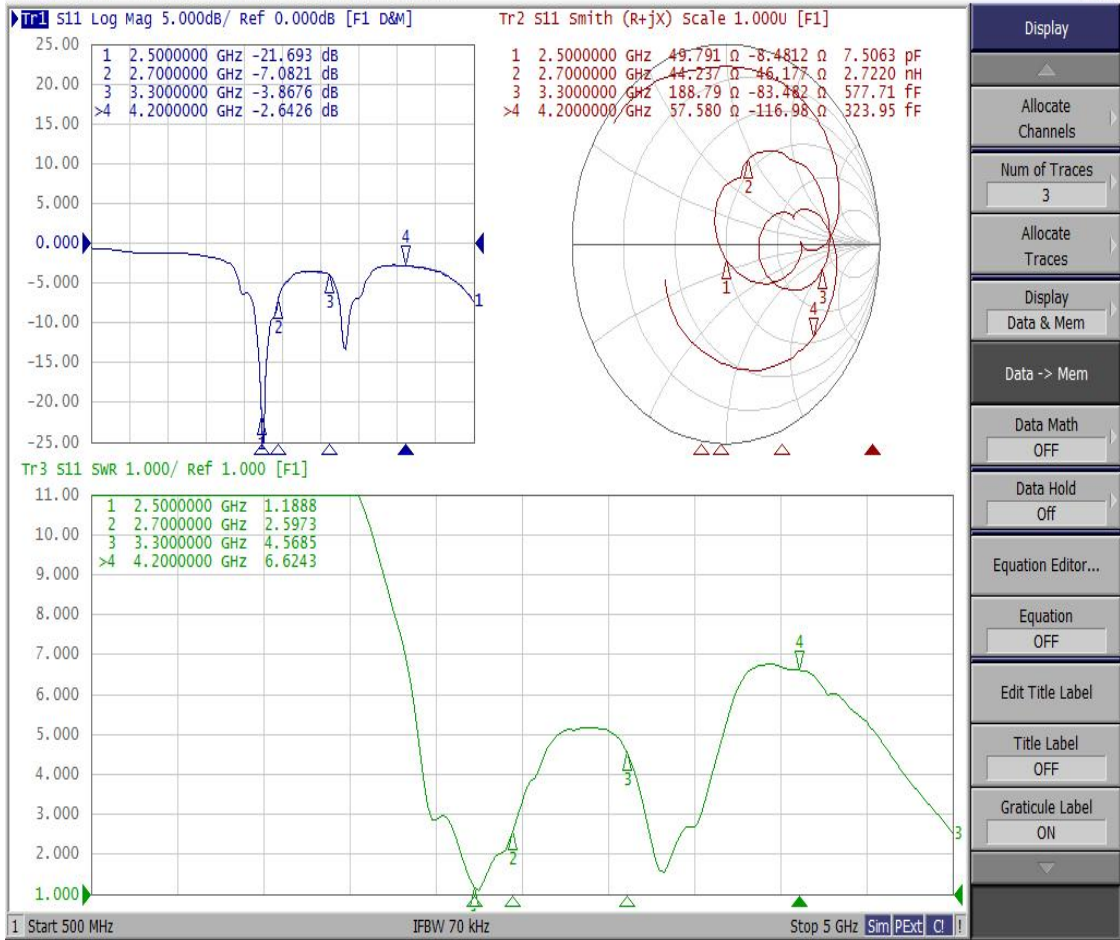
- System
- Print
- Invert Image
ON
- Dump
Screen Image...
- Multiport Test Set
Setup
- Misc Setup
- Backlight
ON
- Firmware
Revision
- Service Menu
- Help
- Return

ANT5

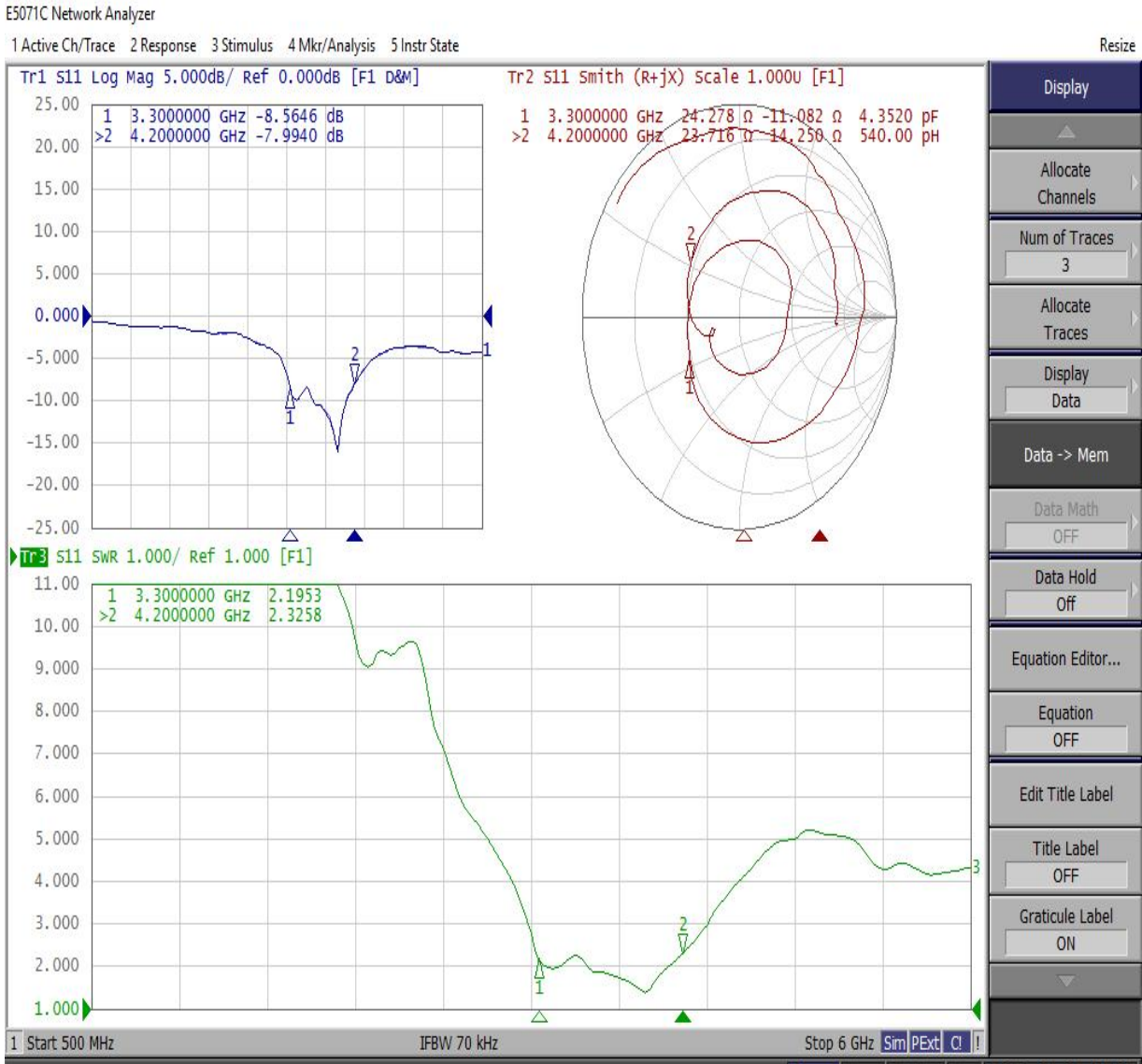
E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

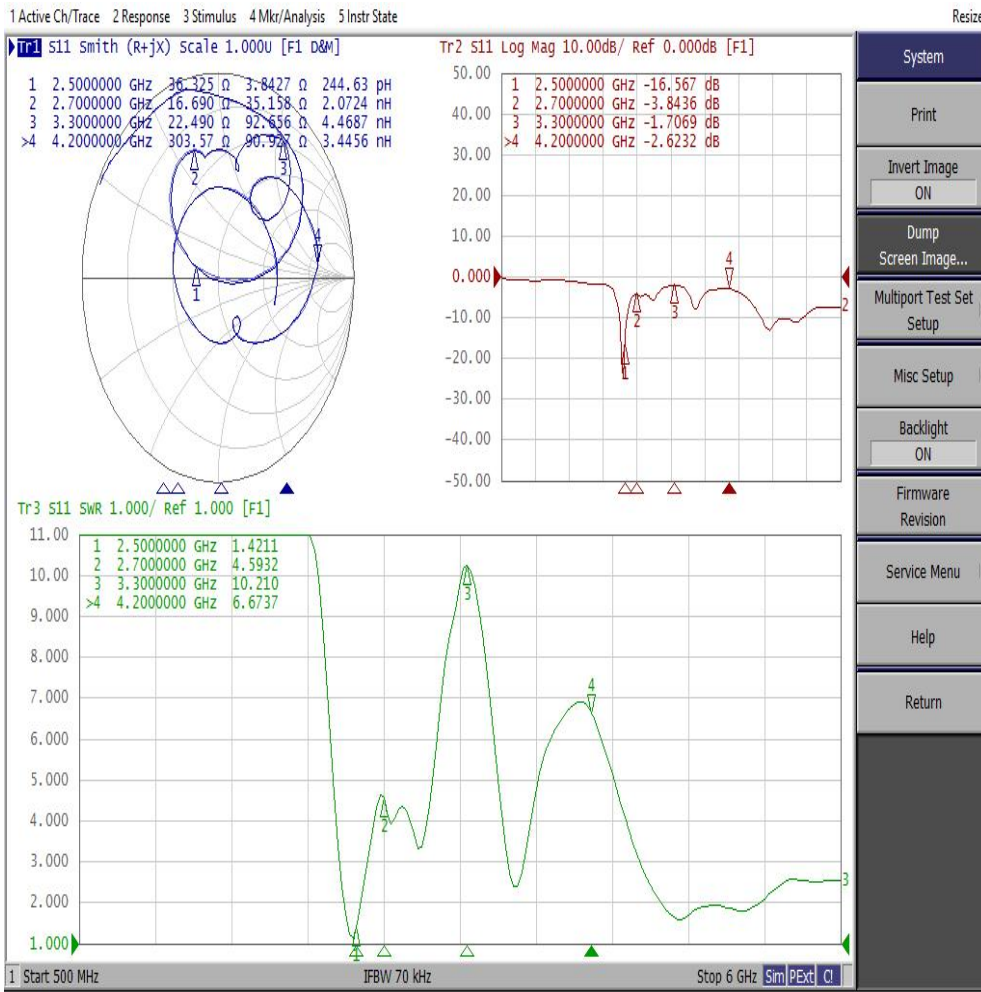
Resize



ANT6



ANT7

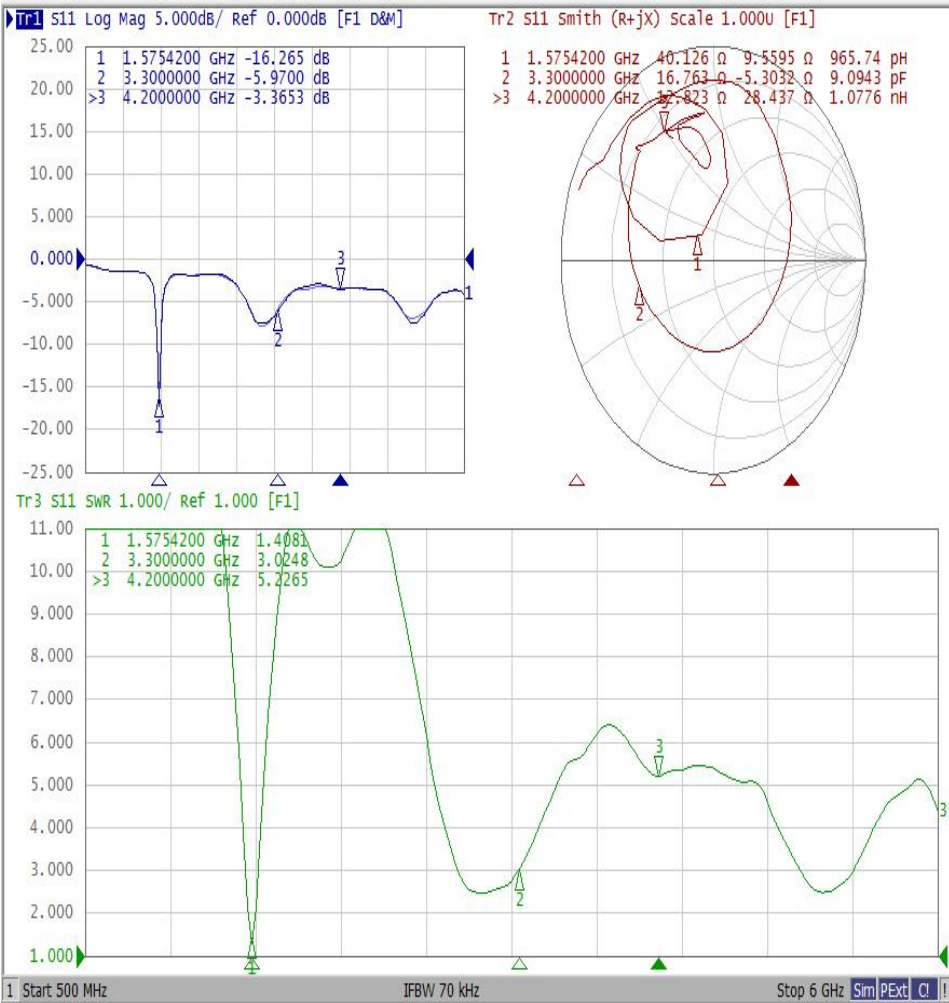


ANT8

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize



System

Print

Invert Image
ON

Dump
Screen Image...

Multipoint Test Set
Setup

Misc Setup

Backlight
ON

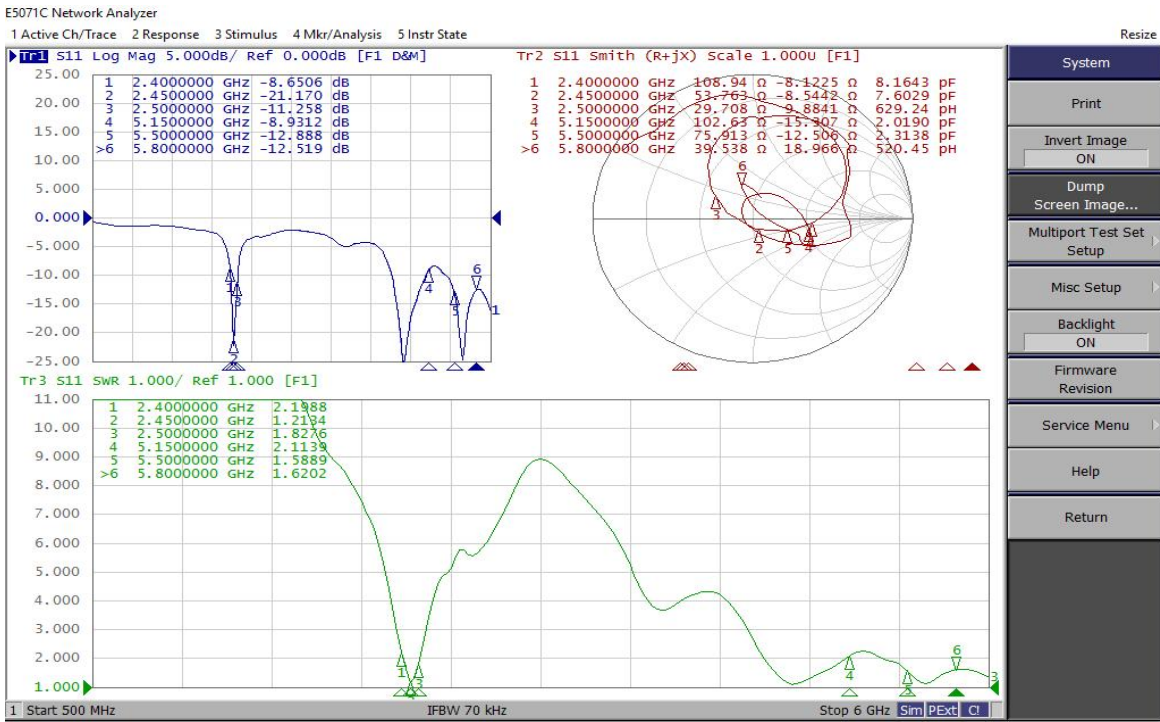
Firmware
Revision

Service Menu

Help

Return

ANT9



2.2 Gain test

ANT1

B5			
Frequency	Efficiency	Efficiency	Gain(dBi)
8.00E+08	18%	-7.4	-1.21
8.10E+08	20%	-6.93	-0.55
8.20E+08	22%	-6.51	-0.2
8.24E+08	25%	-6.1	-0.06
8.30E+08	23%	-6.36	-0.23
8.40E+08	24%	-6.23	-0.44
8.50E+08	23%	-6.44	-1.01
8.60E+08	22%	-6.6	-1.24
8.70E+08	21%	-6.8	-1.22
8.80E+08	20%	-7.07	-1.55
8.90E+08	19%	-7.29	-1.57
1.70E+09	5%	-12.63	-7.45
1.71E+09	6%	-12.01	-6.79
1.72E+09	6%	-12.18	-7.16
1.74E+09	6%	-12.49	-7.89
1.76E+09	7%	-11.71	-6.98
1.78E+09	7%	-11.54	-6.69
1.80E+09	8%	-11.25	-6.44
1.82E+09	7%	-11.68	-6.97
1.84E+09	8%	-11.15	-6.73
1.86E+09	8%	-10.99	-6.56
1.88E+09	8%	-10.75	-6.37
1.90E+09	10%	-9.93	-5.6
1.92E+09	11%	-9.6	-5.35
1.94E+09	12%	-9.13	-4.53
1.96E+09	14%	-8.7	-3.6
1.98E+09	15%	-8.18	-3.06
2.00E+09	17%	-7.81	-3.01
2.02E+09	18%	-7.5	-2.38
2.04E+09	22%	-6.58	-1.39
2.06E+09	22%	-6.66	-1.81
2.08E+09	24%	-6.11	-1.32
2.10E+09	24%	-6.27	-1.41
2.12E+09	25%	-6.1	-1
2.14E+09	25%	-6.03	-0.59
2.16E+09	27%	-5.63	-0.37
2.18E+09	30%	-5.21	0.16
2.20E+09	33%	-4.77	0.93

B12/13/17			
Frequency	Efficiency	Efficiency	Gain(dBi)
7.00E+08	18%	-7.34	-3.23
7.10E+08	18%	-7.36	-2.43
7.20E+08	19%	-7.17	-1.93
7.30E+08	22%	-6.65	-1.15
7.40E+08	21%	-6.81	-0.71
7.50E+08	24%	-6.2	-0.22
7.60E+08	26%	-5.82	0.35
7.70E+08	28%	-5.53	0.62
7.80E+08	28%	-5.56	0.47
7.91E+08	30%	-5.29	0.39

B8			
Frequency	Efficiency	Efficiency	Gain(dBi)
8.80E+08	14%	-8.45	-3.53
8.90E+08	17%	-7.71	-2.70
8.94E+08	17%	-7.60	-2.45
9.00E+08	19%	-7.27	-2.04
9.10E+08	19%	-7.15	-1.70
9.20E+08	19%	-7.26	-1.79
9.30E+08	18%	-7.45	-1.93
9.40E+08	18%	-7.39	-1.88
9.50E+08	17%	-7.78	-2.32
9.60E+08	14%	-8.43	-3.09

B71			
Frequency	Efficiency	Efficiency	Gain(dBi)
6.00E+08	17%	-7.62	-1.58
6.10E+08	18%	-7.37	-1.23
6.20E+08	19%	-7.13	-1.19
6.30E+08	19%	-7.18	-1.44
6.40E+08	19%	-7.29	-1.53
6.50E+08	18%	-7.48	-1.67
6.60E+08	17%	-7.61	-1.82
6.70E+08	17%	-7.82	-2.12
6.80E+08	15%	-8.37	-2.82
6.90E+08	13%	-8.7	-3.28
6.98E+08	14%	-8.55	-2.89
7.00E+08	13%	-8.89	-3.13

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ANT2

B5			
Frequency	Efficiency	Efficiency	Gain(dBi)
8.10E+08	11%	-9.49	-4.87
8.20E+08	12%	-9.26	-4.26
8.24E+08	13%	-9.01	-3.77
8.30E+08	14%	-8.67	-3.27
8.40E+08	16%	-7.92	-2.06
8.50E+08	16%	-7.98	-2.16
8.60E+08	17%	-7.71	-2.2
8.70E+08	16%	-7.84	-3.68
8.80E+08	15%	-8.15	-3.5
8.90E+08	14%	-8.67	-3.24
8.94E+08	13%	-9.01	-3.3
1.70E+09	20%	-7.01	-3.21
1.71E+09	22%	-6.59	-3.55
1.72E+09	22%	-6.6	-3.2
1.74E+09	22%	-6.66	-3.06
1.76E+09	21%	-6.72	-3.23
1.78E+09	20%	-6.99	-3.44
1.80E+09	18%	-7.34	-3.01
1.82E+09	18%	-7.45	-3.24
1.84E+09	18%	-7.5	-3.22
1.86E+09	17%	-7.66	-3.55
1.88E+09	16%	-7.93	-4.57
1.90E+09	17%	-7.76	-4.45
1.92E+09	17%	-7.76	-4.79
1.94E+09	17%	-7.81	-4.16
1.96E+09	19%	-7.3	-4.89
1.98E+09	18%	-7.42	-4.98
2.00E+09	14%	-8.62	-5.69
2.02E+09	13%	-8.71	-5.44
2.04E+09	12%	-9.24	-5.97
2.06E+09	13%	-8.87	-5.73
2.08E+09	12%	-9.35	-5.16
6.50E+08	10%	-10.02	-5.21
2.10E+09	11%	-9.58	-7.89
2.12E+09	10%	-9.79	-6.98
2.14E+09	9%	-10.53	-6.69
2.16E+09	8%	-10.82	-6.44
2.18E+09	8%	-11.01	-6.97
2.20E+09	8%	-10.8374	-6.73

B12/13/17			
Frequency	Efficiency	Efficiency	Gain(dBi)
7.00E+08	8%	-10.99	-6.56
7.10E+08	8%	-10.75	-6.37
7.20E+08	10%	-9.93	-5.6
7.30E+08	11%	-9.6	-5.35
7.40E+08	12%	-9.13	-4.53
7.50E+08	12%	-9.13	-3.78
7.60E+08	14%	-8.7	-3.27
7.70E+08	15%	-8.18	-3.71
7.80E+08	13%	-8.7	-3.28
7.91E+08	14%	-8.55	-2.89

B8			
Frequency	Efficiency	Efficiency	Gain(dBi)
870000000	22%	-6.62	-0.69
880000000	21%	-6.79	-0.92
890000000	20%	-7.07	-1.38
894000000	20%	-7.07	-0.90
900000000	19%	-7.31	-1.71
910000000	19%	-7.31	-1.71
920000000	17%	-7.58	-1.55
930000000	16%	-7.92	-2.39
940000000	15%	-8.34	-2.98
950000000	14%	-8.68	-3.39
960000000	14%	-8.69	-3.87

B71			
Frequency	Efficiency	Efficiency	Gain(dBi)
6.00E+08	16%	-8.01	-2.84
6.10E+08	16%	-7.92	-2.46
6.20E+08	15%	-8.15	-2.49
6.30E+08	14%	-8.57	-3.26
6.40E+08	12%	-9.25	-4.13
6.60E+08	8%	-10.83	-6.36
6.70E+08	8%	-11.19	-6.9
6.80E+08	7%	-11.81	-7.65
6.90E+08	5%	-12.68	-8.45
6.98E+08	5%	-12.95	-8.45
7.00E+08	5%	-13.39	-8.91

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ANT3

Frequency	Efficiency	Efficiency	Gain (dBi)
1700000000	26%	-5.89	-0.90
1710000000	26%	-5.85	-0.90
1720000000	26%	-5.90	-1.08
1740000000	26%	-5.93	-1.20
1760000000	28%	-5.57	-0.94
1780000000	29%	-5.41	-0.67
1800000000	31%	-5.02	0.04
1820000000	32%	-4.95	0.32
1840000000	29%	-5.32	-0.10
1860000000	31%	-5.08	0.14
1880000000	31%	-5.06	0.17
1900000000	29%	-5.44	0.19
1920000000	29%	-5.44	0.32
1940000000	28%	-5.60	-0.05
1960000000	26%	-5.80	-0.20
1980000000	25%	-5.97	-0.09

Frequency	Efficiency	Efficiency	Gain (dBi)
2000000000	25%	-5.97	-0.29
2020000000	24%	-6.16	-0.58
2040000000	21%	-6.82	-1.01
2060000000	23%	-6.46	-0.95
2080000000	21%	-6.87	-1.19
2100000000	21%	-6.77	-1.17
2120000000	20%	-7.08	-1.52
2140000000	18%	-7.33	-1.69
2160000000	17%	-7.79	-2.20
2180000000	16%	-8.01	-2.61
2200000000	16%	-8.07	-2.49
2500000000	13%	-8.96	-3.99
2520000000	14%	-8.66	-3.78
2540000000	13%	-8.76	-4.10
2560000000	14%	-8.65	-4.14
2580000000	14%	-8.46	-3.65
2600000000	14%	-8.69	-4.15
2620000000	13%	-8.92	-4.45
2640000000	15%	-8.29	-3.68
2660000000	15%	-8.33	-3.60
2680000000	13%	-8.98	-4.18
2690000000	13%	-8.89	-4.15
2700000000	15%	-8.29	-3.50

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ANT4

Frequency	Efficiency	Efficiency	Gain(dBi)
1700000000	30%	-5.28	0.53
1710000000	30%	-5.26	0.53
1720000000	31%	-5.06	0.84
1740000000	32%	-4.99	0.74
1760000000	33%	-4.85	0.70
1780000000	36%	-4.40	1.24
1800000000	38%	-4.19	1.64
1820000000	40%	-4.02	1.79
1840000000	34%	-4.72	1.22
1860000000	33%	-4.84	1.29
1880000000	28%	-5.56	0.52
1900000000	28%	-5.57	0.52
1920000000	26%	-5.91	0.39
1940000000	26%	-5.88	0.50
1960000000	24%	-6.18	0.32
1980000000	24%	-6.26	0.02

Frequency	Efficiency	Efficiency	Gain(dBi)
2000000000	23%	-6.29	0.02
2020000000	22%	-6.67	-0.11
2040000000	20%	-7.01	-0.67
2060000000	20%	-6.95	-0.67
2080000000	22%	-6.65	-0.14
2100000000	21%	-6.86	-0.62
2120000000	18%	-7.48	-0.98
2140000000	16%	-8.06	-1.59
2160000000	16%	-8.07	-1.49
2180000000	16%	-7.99	-1.49
2200000000	15%	-8.25	-1.76
2500000000	10%	-10.14	-4.49
2520000000	8%	-11.01	-5.48
2540000000	8%	-11.12	-5.59
2560000000	7%	-11.40	-5.98
2580000000	7%	-11.35	-5.98
2600000000	7%	-11.26	-5.90
2620000000	9%	-10.46	-5.28
2640000000	10%	-9.93	-4.58
2660000000	9%	-10.39	-4.98
2680000000	8%	-11.01	-5.78
2690000000	9%	-10.59	-5.49
2700000000	9%	-10.70	-5.83

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ANT5

Frequency	Efficiency	Efficiency	Gain(dBi)
2480000000	40%	-4.0	1.09
2500000000	42%	-3.8	1.08
2520000000	42%	-3.8	1.64
2540000000	41%	-3.9	1.75
2560000000	39%	-4.1	2.02
2580000000	38%	-4.3	2.51
2600000000	34%	-4.7	2.20
2620000000	32%	-5.0	2.22
2640000000	38%	-4.1	2.66
2660000000	40%	-4.0	2.08
2680000000	36%	-4.5	0.75
2690000000	36%	-4.4	0.68
2700000000	40%	-4.0	0.63
3300000000	17%	-7.6	-1.07
3320000000	19%	-7.2	-0.82
3340000000	20%	-7.1	-0.84
3360000000	18%	-7.4	-1.15
3380000000	19%	-7.2	-0.92
3400000000	20%	-7.1	-0.66
3420000000	19%	-7.3	-0.86
3440000000	18%	-7.5	-1.07
3460000000	17%	-7.8	-1.41
3480000000	15%	-8.3	-1.91
3500000000	13%	-8.8	-2.40
3520000000	12%	-9.3	-2.71
3540000000	11%	-9.5	-2.63
3560000000	11%	-9.7	-2.43
3580000000	11%	-9.6	-2.25
3600000000	12%	-9.1	-1.87
3620000000	14%	-8.6	-1.37

Frequency	Efficiency	Efficiency	Gain(dBi)
3640000000	14%	-8.7	-1.36
3660000000	14%	-8.4	-1.26
3680000000	16%	-7.9	-0.88
3700000000	15%	-8.3	-1.41
3720000000	15%	-8.2	-1.63
3740000000	14%	-8.7	-2.39
3760000000	14%	-8.7	-2.57
3780000000	11%	-9.5	-2.98
3800000000	10%	-10.0	-3.76
3820000000	10%	-10.1	-4.19
3840000000	9%	-10.4	-4.80
3860000000	9%	-10.2	-4.80
3880000000	10%	-10.2	-4.65
3900000000	9%	-10.4	-4.80
3920000000	8%	-10.7	-5.06
3940000000	10%	-10.2	-4.55
3960000000	9%	-10.4	-5.04
3980000000	9%	-10.5	-5.17
4000000000	11%	-9.7	-4.40
4020000000	10%	-9.9	-4.78
4040000000	10%	-10.0	-4.84
4060000000	9%	-10.3	-5.09
4080000000	11%	-9.6	-4.52
4100000000	10%	-10.0	-4.99
4120000000	9%	-10.5	-5.48
4140000000	10%	-9.9	-4.79
4160000000	10%	-9.9	-4.99
4180000000	10%	-10.1	-5.16
4200000000	10%	-10.0	-5.15

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ANT6

Frequency	Efficiency	Efficiency	Gain(dBi)
3300000000	26%	-5.82	-0.51
3320000000	28%	-5.57	-0.23
3340000000	28%	-5.51	-0.17
3360000000	29%	-5.31	-0.06
3380000000	28%	-5.58	-0.60
3400000000	29%	-5.42	-0.58
3420000000	28%	-5.49	-0.77
3440000000	26%	-5.86	-1.00
3460000000	25%	-6.06	-0.62
3480000000	27%	-5.67	-0.81
3500000000	27%	-5.76	-1.40
3520000000	26%	-5.85	-1.66
3540000000	27%	-5.74	-0.86
3560000000	25%	-6.02	-1.57
3580000000	25%	-6.20	-1.71
3600000000	27%	-5.63	-0.48
3620000000	25%	-5.95	-1.05
3640000000	25%	-5.94	-1.51
3660000000	25%	-5.98	-0.78
3680000000	25%	-5.98	-0.90
3700000000	26%	-5.90	-0.40
3720000000	26%	-5.83	0.33
3740000000	26%	-5.82	0.60
3760000000	28%	-5.61	1.07
3780000000	27%	-5.66	1.04

Frequency	Efficiency	Efficiency	Gain(dBi)
3800000000	25%	-5.96	1.03
3820000000	24%	-6.14	1.17
3840000000	25%	-5.98	1.64
3860000000	26%	-5.90	2.09
3880000000	25%	-5.97	2.29
3900000000	26%	-5.86	2.32
3920000000	27%	-5.72	2.37
3940000000	27%	-5.73	2.06
3960000000	25%	-6.03	1.26
3980000000	26%	-5.79	1.31
4000000000	28%	-5.47	1.93
4020000000	28%	-5.53	2.25
4040000000	30%	-5.16	2.89
4060000000	29%	-5.34	2.78
4080000000	29%	-5.40	2.90
4100000000	28%	-5.57	2.97
4120000000	27%	-5.77	2.90
4140000000	25%	-6.08	2.53
4160000000	27%	-5.74	2.90
4180000000	26%	-5.79	2.99
4200000000	24%	-6.13	2.47

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ANT7

Frequency	Efficiency	Efficiency	Gain(dBi)
2500000000	5%	-12.88	-7.36
2520000000	4%	-13.68	-8.14
2540000000	4%	-13.84	-8.59
2560000000	4%	-13.80	-8.76
2580000000	4%	-13.68	-8.66
2600000000	4%	-13.67	-8.96
2620000000	5%	-13.08	-8.44
2640000000	6%	-12.37	-7.92
2660000000	5%	-12.79	-8.23
2680000000	5%	-12.79	-8.46
2690000000	6%	-12.26	-7.79
2700000000	6%	-12.44	-8.03
3300000000	25%	-6.10	-0.60
3320000000	26%	-5.92	-0.34
3340000000	27%	-5.76	-0.30
3360000000	25%	-6.08	-0.36
3380000000	24%	-6.16	-0.35
3400000000	26%	-5.86	-0.03
3420000000	26%	-5.80	0.12
3440000000	25%	-5.95	-0.09
3460000000	27%	-5.75	0.24
3480000000	28%	-5.59	0.39
3500000000	27%	-5.61	0.41
3520000000	28%	-5.51	0.62
3540000000	27%	-5.69	0.37
3560000000	27%	-5.71	0.22
3580000000	27%	-5.61	0.41
3600000000	29%	-5.45	0.66
3620000000	29%	-5.38	0.70
3640000000	28%	-5.47	0.41
3660000000	29%	-5.32	0.64
3680000000	30%	-5.16	0.85

Frequency	Efficiency	Efficiency	Gain(dBi)
3700000000	32%	-4.97	0.65
3720000000	35%	-4.57	1.06
3740000000	34%	-4.68	0.82
3760000000	36%	-4.49	1.09
3780000000	36%	-4.41	1.08
3800000000	33%	-4.80	0.70
3820000000	32%	-4.90	0.61
3840000000	34%	-4.68	0.95
3860000000	35%	-4.52	1.20
3880000000	35%	-4.55	1.10
3900000000	36%	-4.44	1.23
3920000000	37%	-4.32	1.30
3940000000	37%	-4.29	1.42
3960000000	36%	-4.48	1.09
3980000000	37%	-4.29	1.21
4000000000	39%	-4.11	1.42
4020000000	38%	-4.23	1.25
4040000000	39%	-4.05	1.40
4060000000	36%	-4.45	1.11
4080000000	36%	-4.46	1.10
4100000000	35%	-4.55	1.30
4120000000	30%	-5.24	0.89
4140000000	29%	-5.42	0.67
4160000000	32%	-5.00	1.27
4180000000	31%	-5.08	1.15
4200000000	31%	-5.12	0.76

Confidential Information

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Frequency	Efficiency	Efficiency	Gain(dBi)
2400000000	24%	-6.17	-0.56
2410000000	25%	-6.03	-0.88
2420000000	25%	-6.03	-0.28
2430000000	26%	-5.87	0.12
2440000000	26%	-5.80	0.35
2450000000	27%	-5.67	0.63
2460000000	27%	-5.69	0.69
2470000000	27%	-5.62	0.57
2480000000	27%	-5.72	0.45
2490000000	25%	-5.95	0.12
2500000000	26%	-5.89	0.39
5150000000	21%	-6.71	-1.20
5200000000	21%	-6.78	-1.02
5250000000	21%	-6.82	-1.33
5300000000	22%	-6.59	-1.41
5350000000	23%	-6.35	-1.19
5400000000	24%	-6.28	-0.82
5450000000	23%	-6.32	-0.39
5500000000	25%	-5.98	-0.26
5550000000	22%	-6.65	-0.49
5600000000	22%	-6.48	-0.77
5650000000	23%	-6.47	-0.24
5700000000	23%	-6.36	0.06
5750000000	22%	-6.55	-0.60
5800000000	22%	-6.60	-1.28
5850000000	24%	-6.28	-0.90

Confidential Information

ANT9

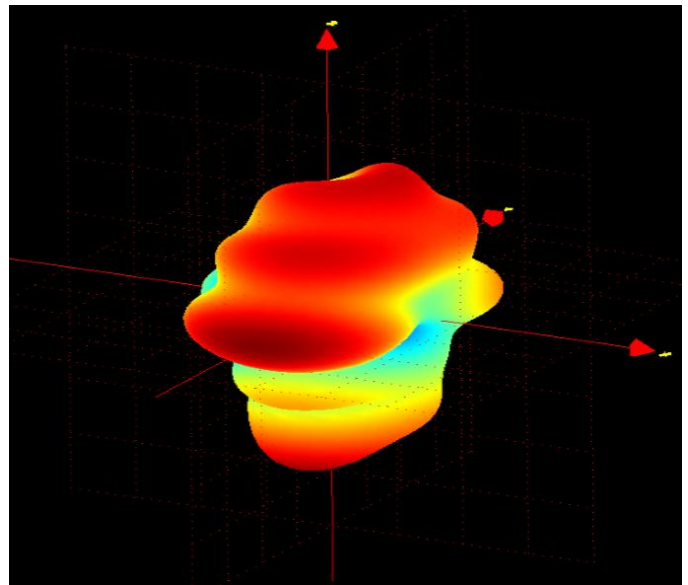
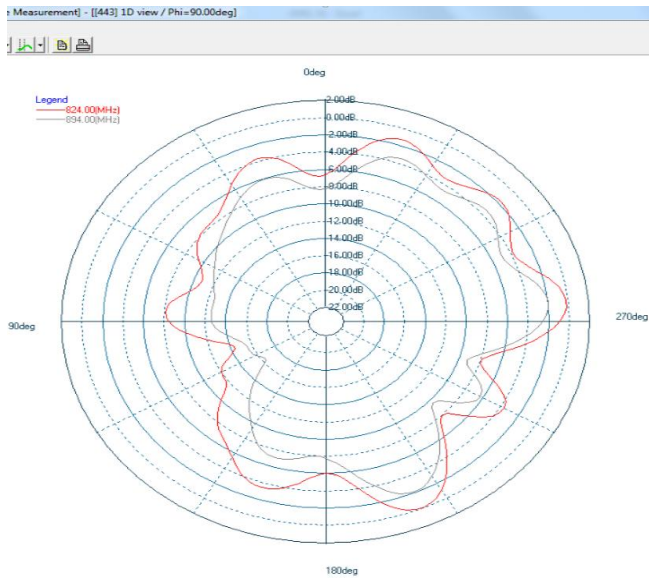
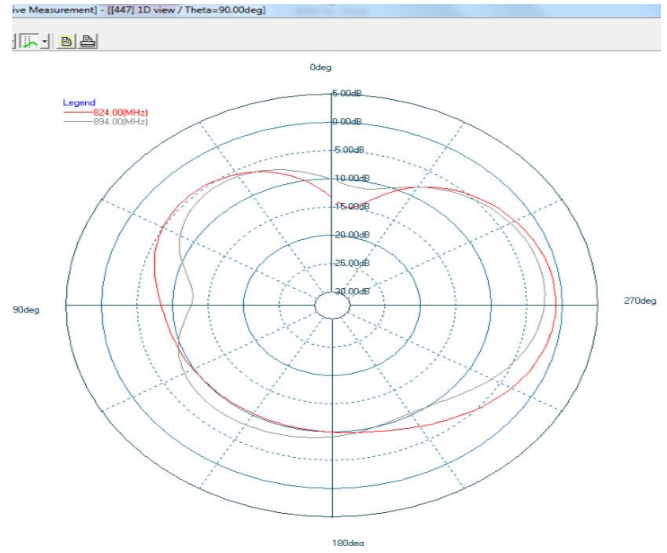
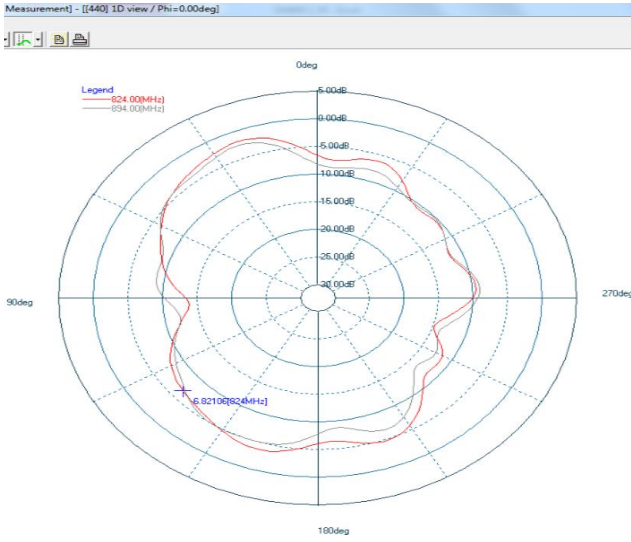
Frequency	Efficiency	Efficiency	Gain(dBi)
1550000000	31%	-5.07	-0.95
1555000000	32%	-4.93	-0.54
1560000000	31%	-5.03	-0.60
1565000000	33%	-4.88	-0.11
1570000000	33%	-4.80	-0.07
1575000000	34%	-4.67	0.37
1580000000	35%	-4.58	0.29
1585000000	35%	-4.59	0.32
1590000000	35%	-4.58	-0.04
1595000000	34%	-4.69	-0.11
1600000000	35%	-4.52	-0.10
3300000000	18%	-7.51	0.95
3320000000	19%	-7.28	1.03
3340000000	19%	-7.10	1.09
3360000000	17%	-7.77	0.49
3380000000	17%	-7.82	0.54
3400000000	17%	-7.75	0.63
3420000000	16%	-8.04	0.25
3440000000	15%	-8.14	0.07
3460000000	16%	-8.04	0.34
3480000000	15%	-8.14	0.19
3500000000	14%	-8.60	-0.42
3520000000	14%	-8.59	-0.60
3540000000	12%	-9.24	-1.46
3560000000	11%	-9.65	-1.89
3580000000	10%	-9.85	-2.16
3600000000	10%	-9.87	-2.15
3620000000	10%	-10.07	-2.43
3640000000	9%	-10.47	-2.81
3660000000	9%	-10.42	-2.64
3680000000	9%	-10.56	-2.65

Frequency	Efficiency	Efficiency	Gain(dBi)
3700000000	9%	-10.60	-2.74
3720000000	10%	-10.20	-2.32
3740000000	9%	-10.36	-2.32
3760000000	9%	-10.27	-2.14
3780000000	9%	-10.68	-2.81
3800000000	8%	-10.84	-2.87
3820000000	8%	-11.15	-3.26
3840000000	8%	-11.07	-3.22
3860000000	9%	-10.63	-2.63
3880000000	9%	-10.57	-2.59
3900000000	9%	-10.64	-2.87
3920000000	9%	-10.62	-2.89
3940000000	10%	-9.83	-2.03
3960000000	10%	-10.19	-2.35
3980000000	10%	-9.79	-1.98
4000000000	13%	-8.76	-0.97
4020000000	12%	-9.04	-1.38
4040000000	13%	-8.92	-1.25
4060000000	12%	-9.28	-1.70
4080000000	13%	-8.73	-1.21
4100000000	12%	-9.21	-1.59
4120000000	12%	-9.35	-1.74
4140000000	13%	-8.97	-1.52
4160000000	12%	-9.16	-1.50
4180000000	11%	-9.44	-1.51
4200000000	11%	-9.53	-1.66

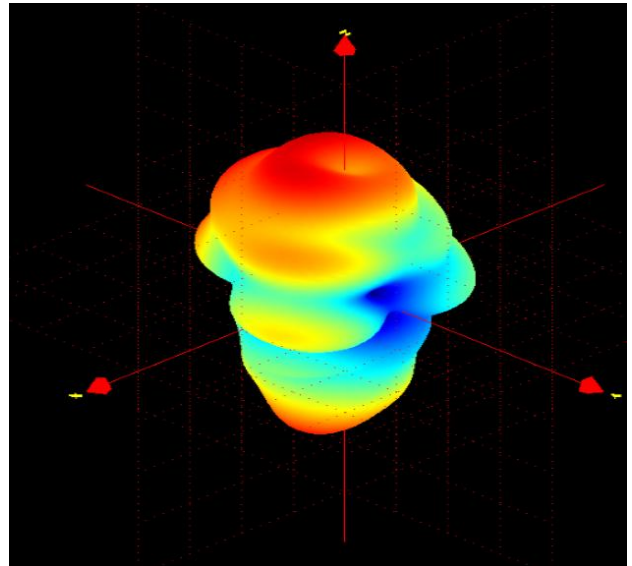
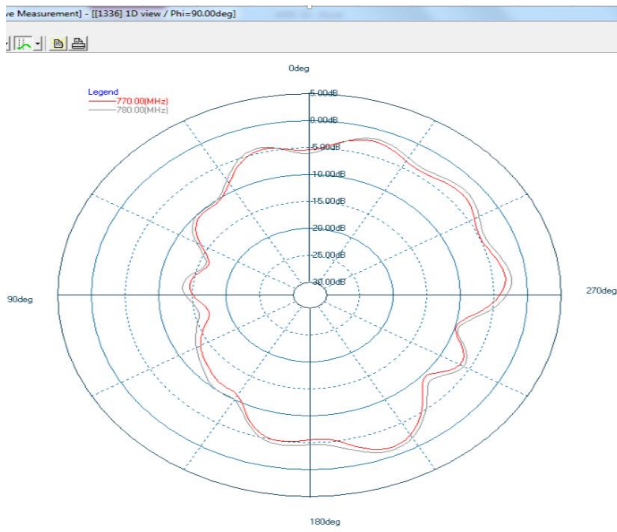
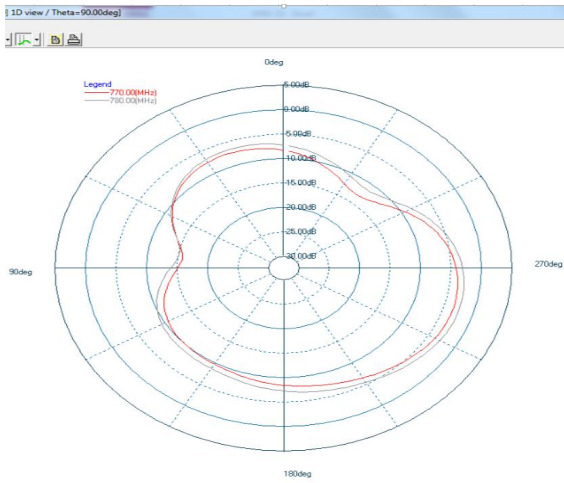
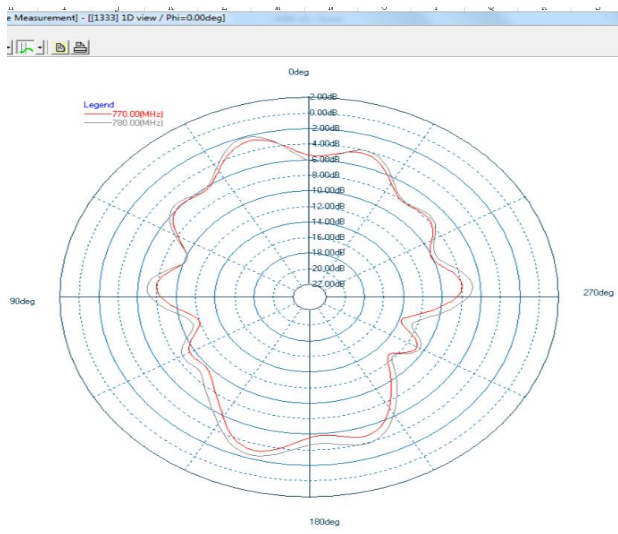
2.3 Passive field pattern diagram

ANT1

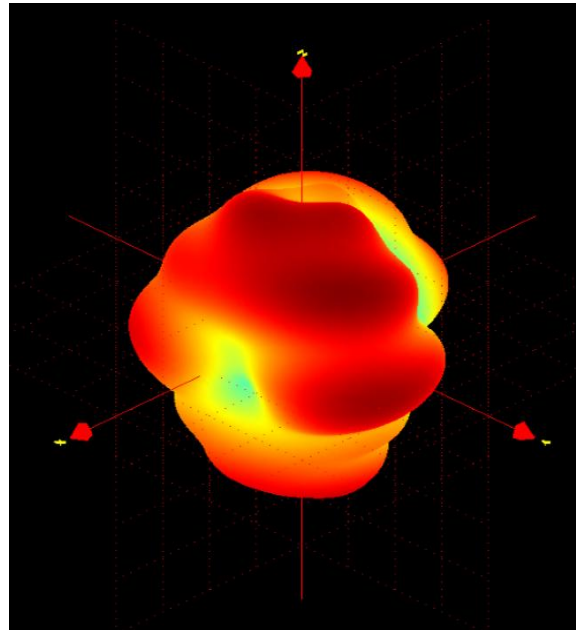
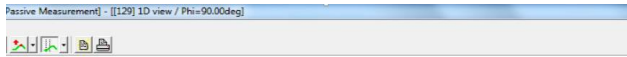
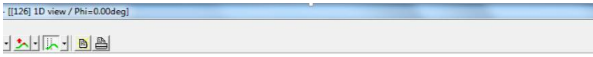
B5



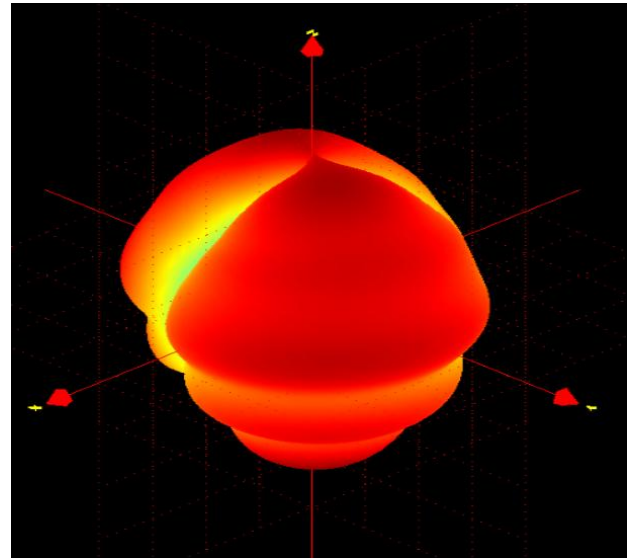
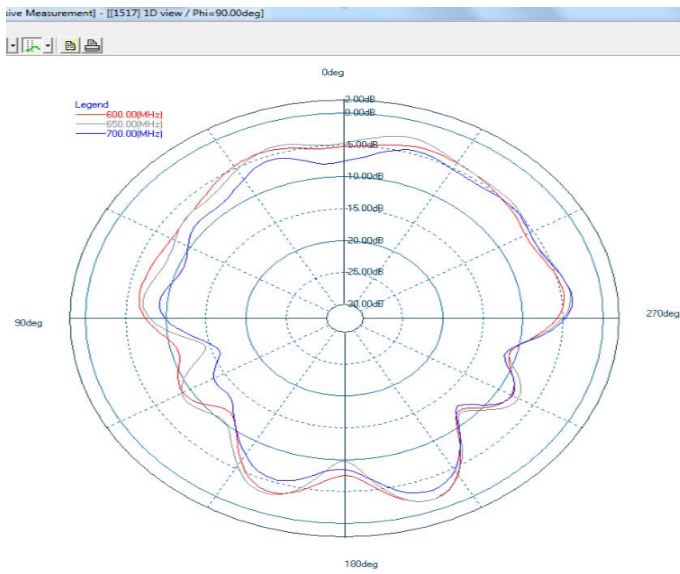
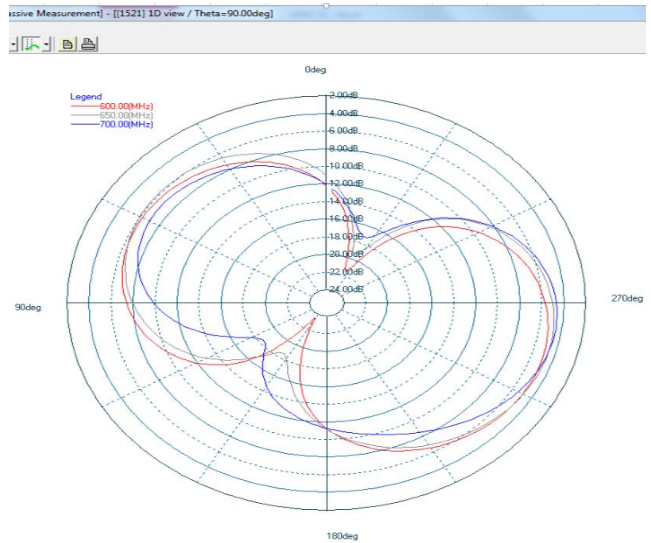
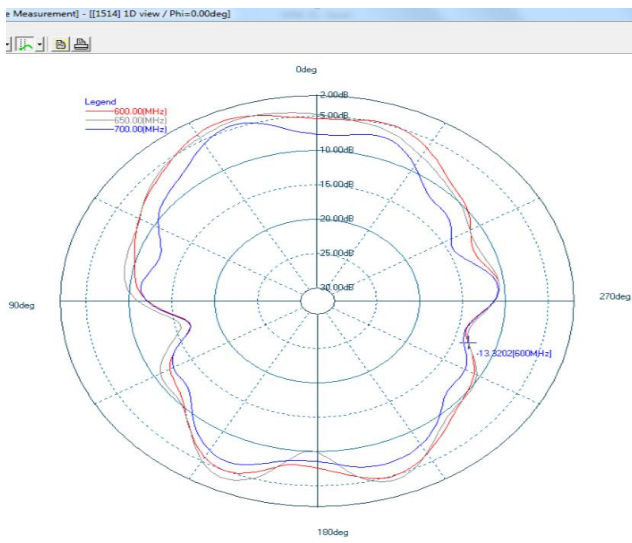
B12/13/17



B8



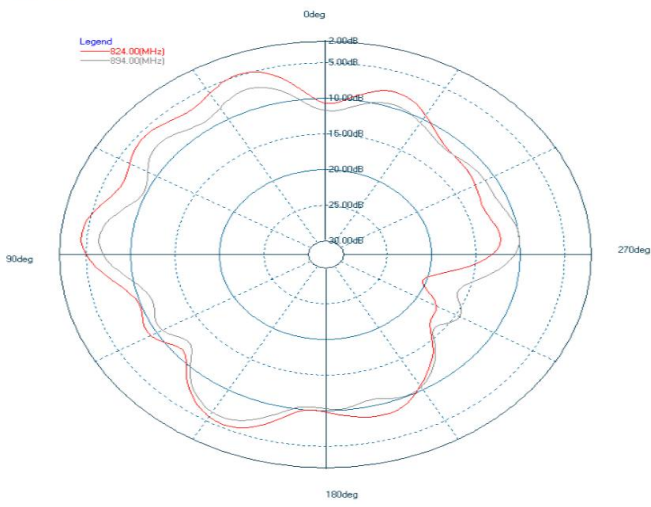
B71



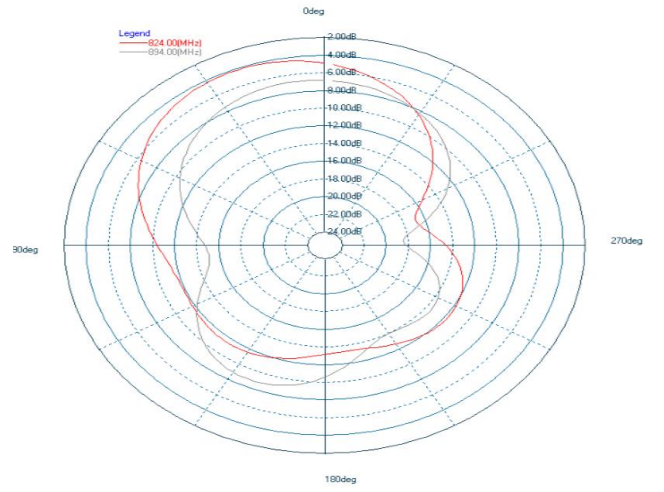
ANT2

B5

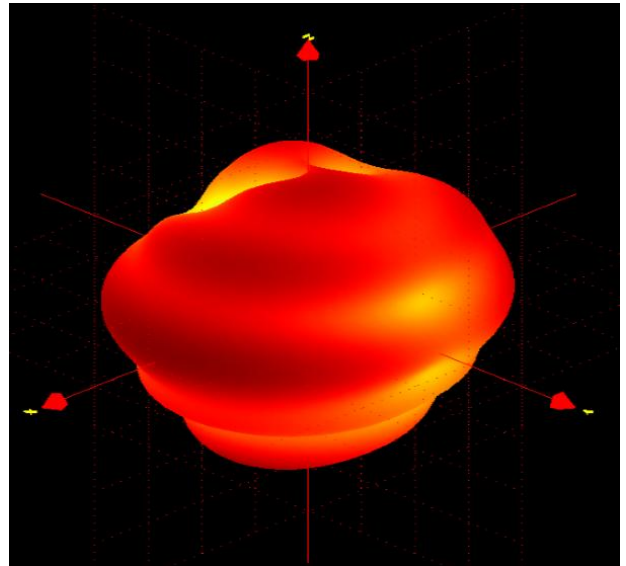
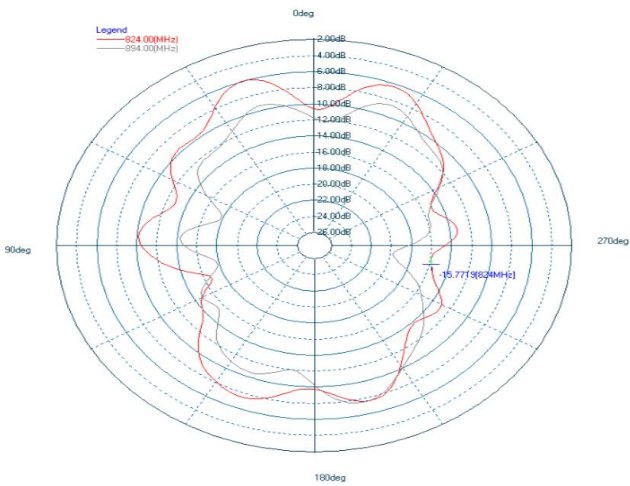
Measurement - [[1963] 1D view / Phi=0.00deg]



Measurement - [[1970] 1D view / Theta=90.00deg]

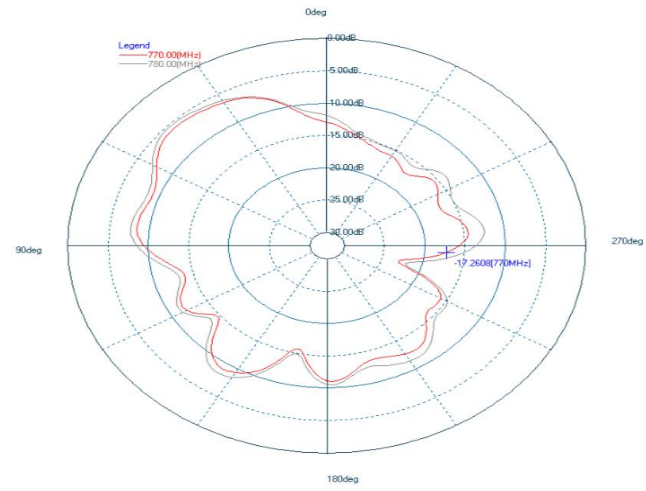


Measurement - [[1966] 1D view / Phi=90.00deg]

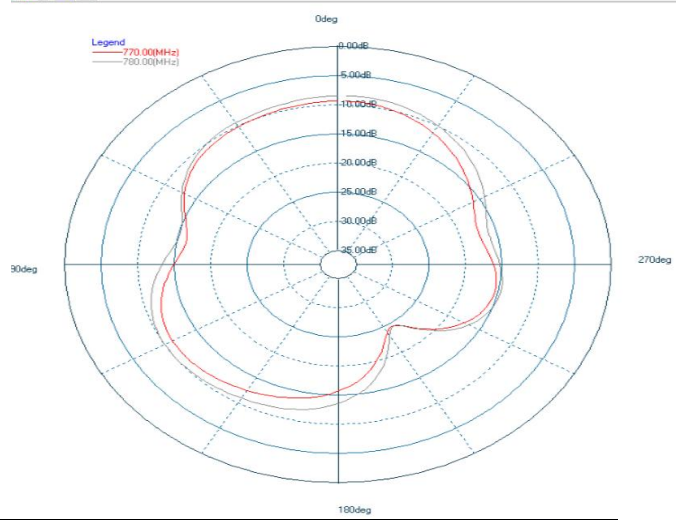


B12/13/17

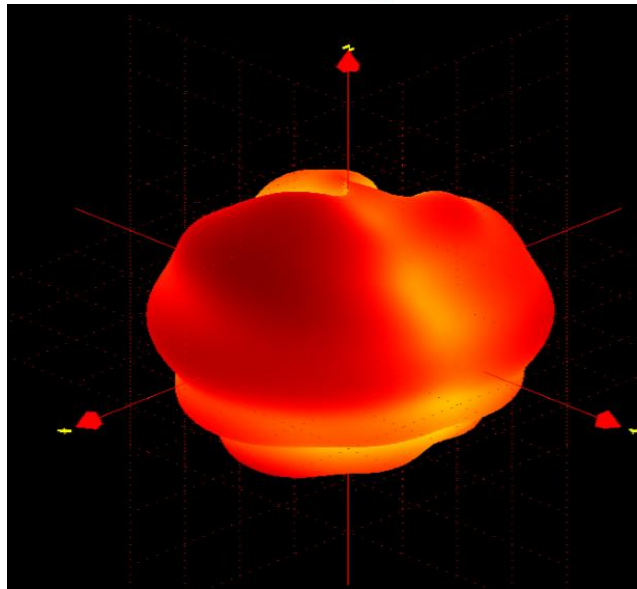
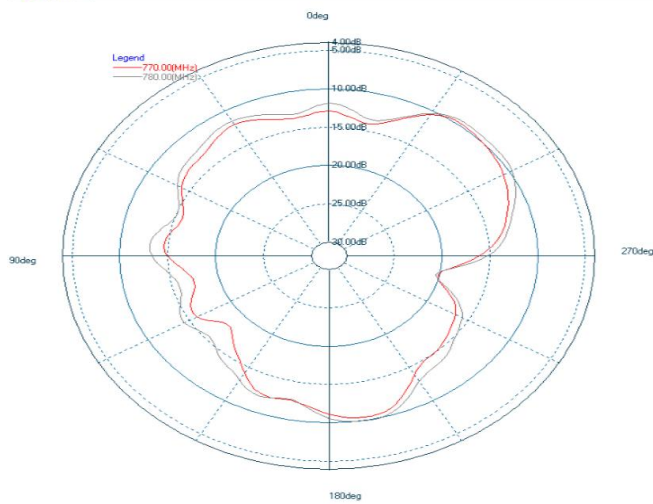
1] 1D view / Phi=0.00deg



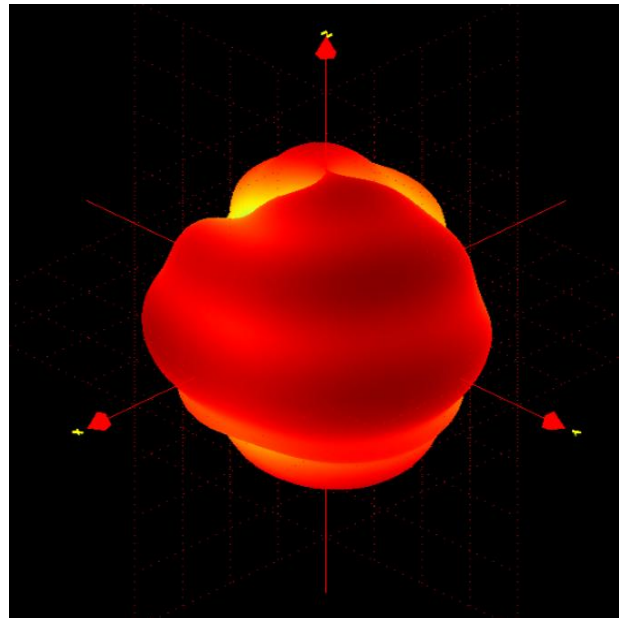
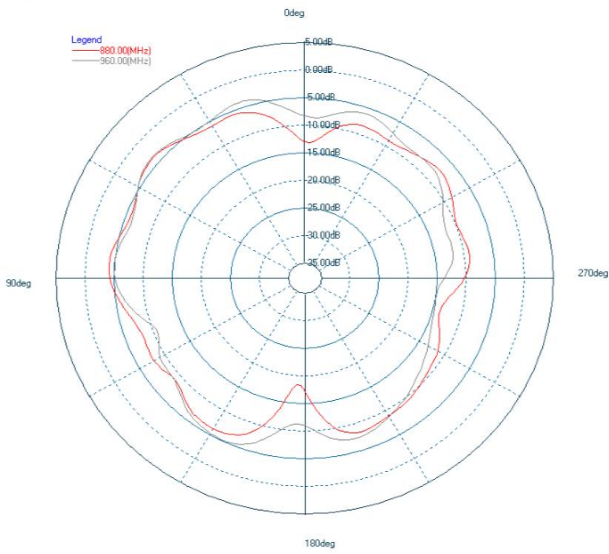
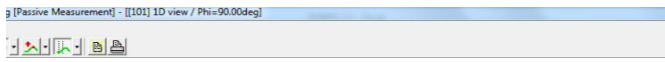
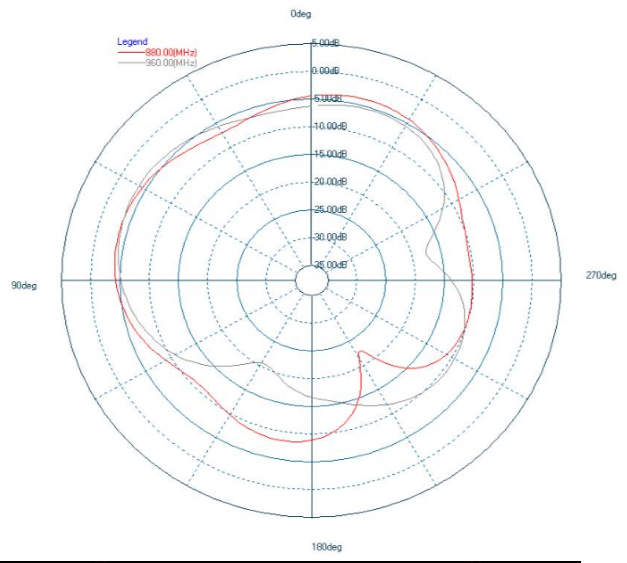
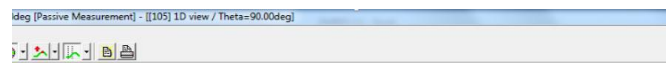
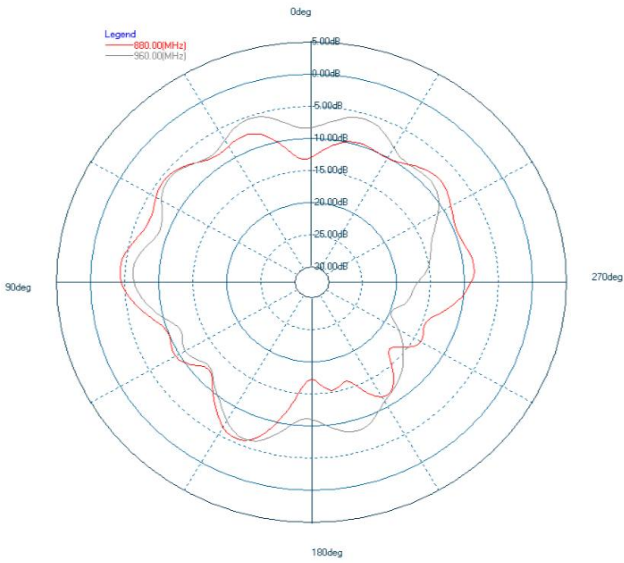
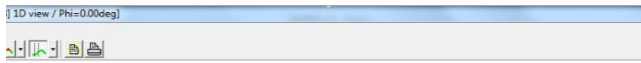
ive Measurement] - [[1998] 1D view / Theta=90.00deg]



ive Measurement] - [[1994] 1D view / Phi=90.00deg]

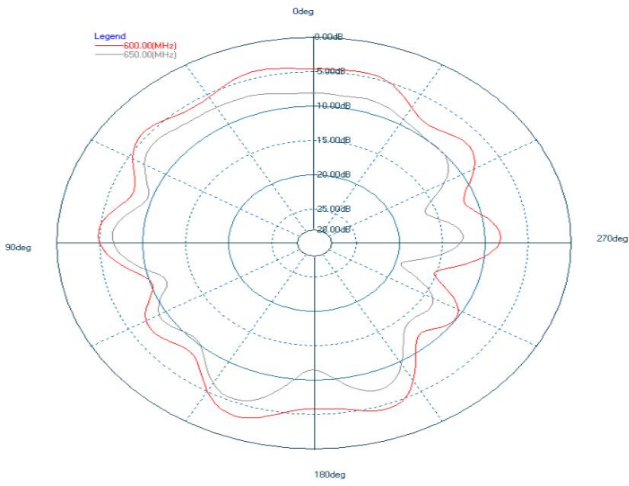


B8

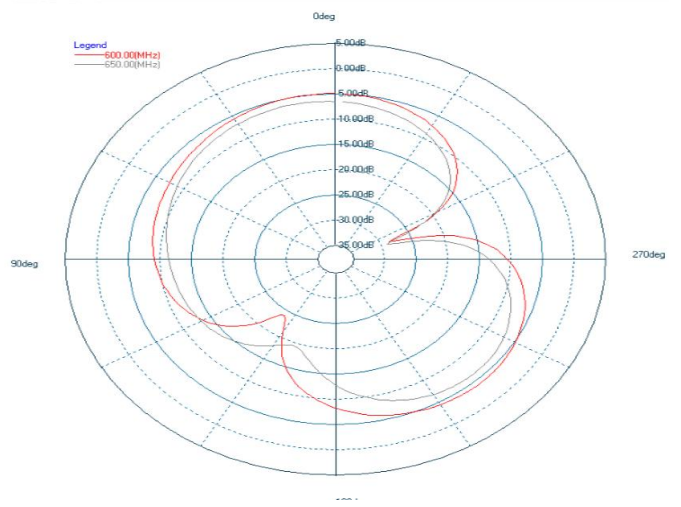


B71

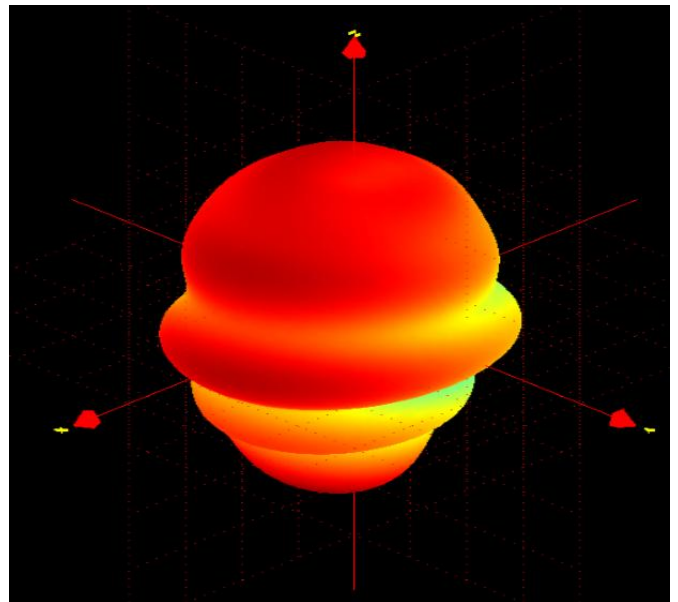
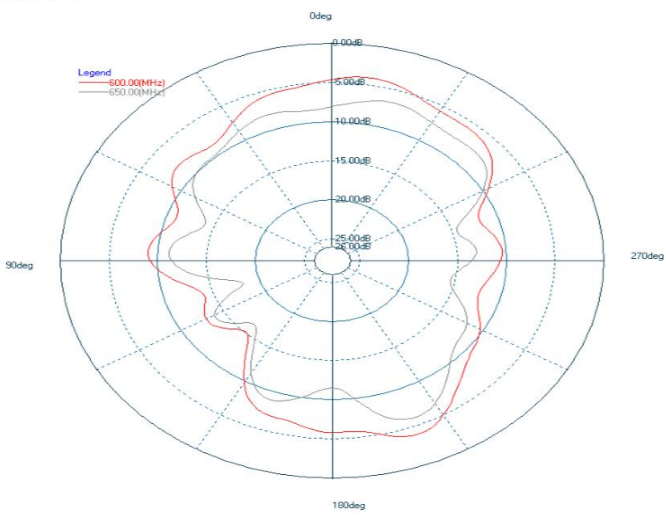
[Active Measurement] - [[2076] 1D view / Phi=0.00deg]



[Passive Measurement] - [[2083] 1D view / Theta=90.00deg]

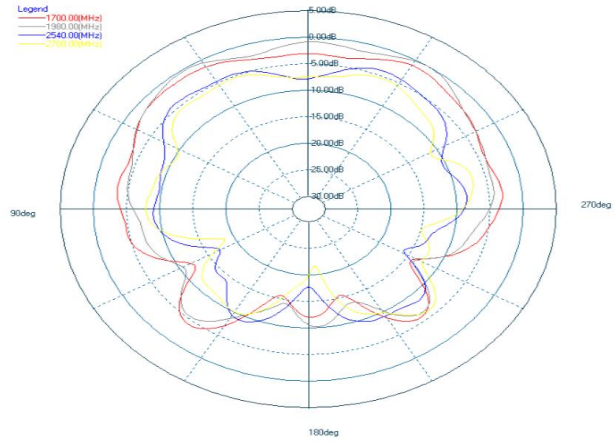


[Active Measurement] - [[2079] 1D view / Phi=90.00deg]

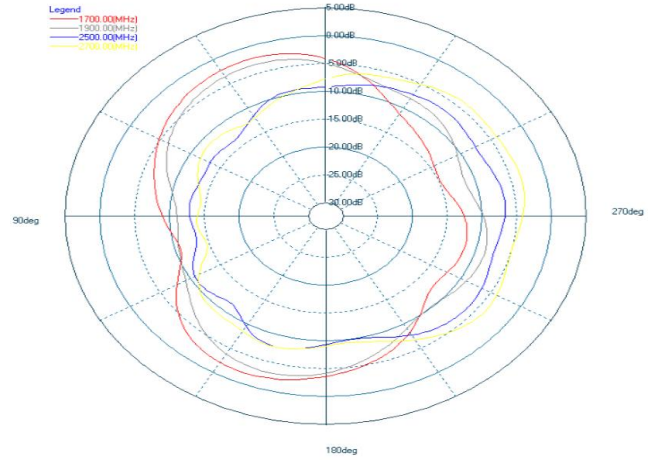


ANT3

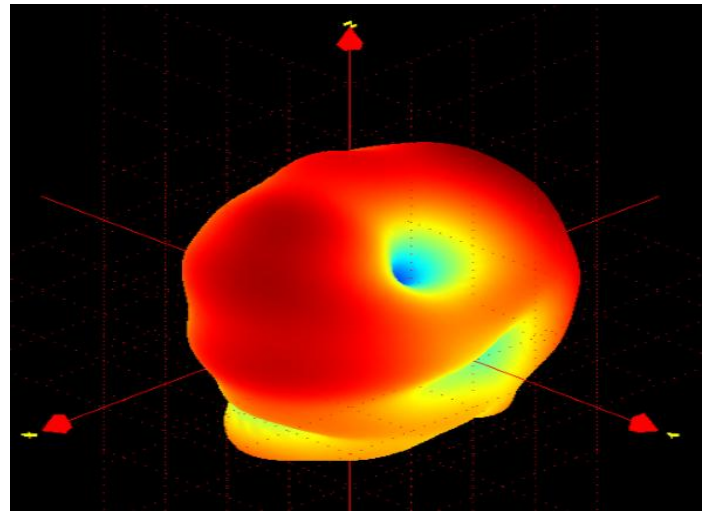
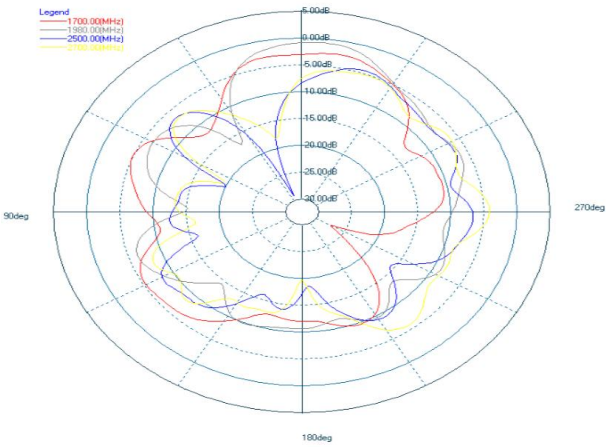
ve Measurement] - [[1728] 1D view / Phi=0.00deg]



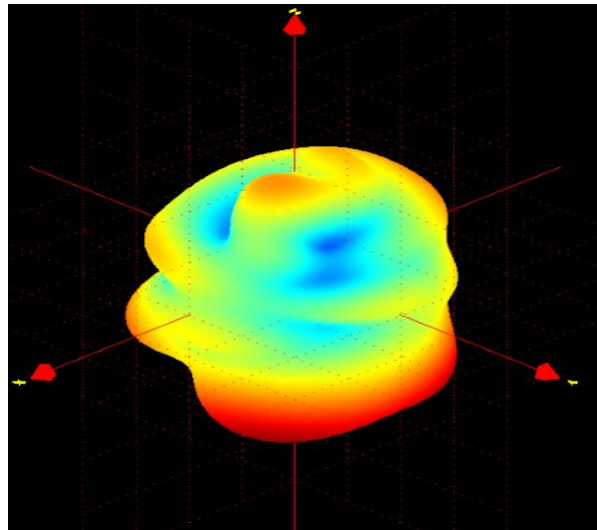
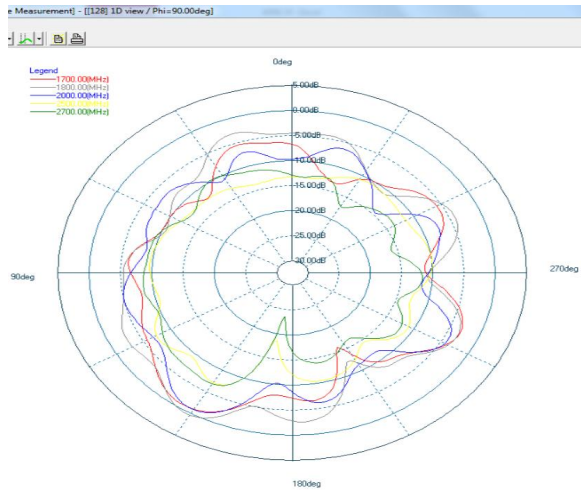
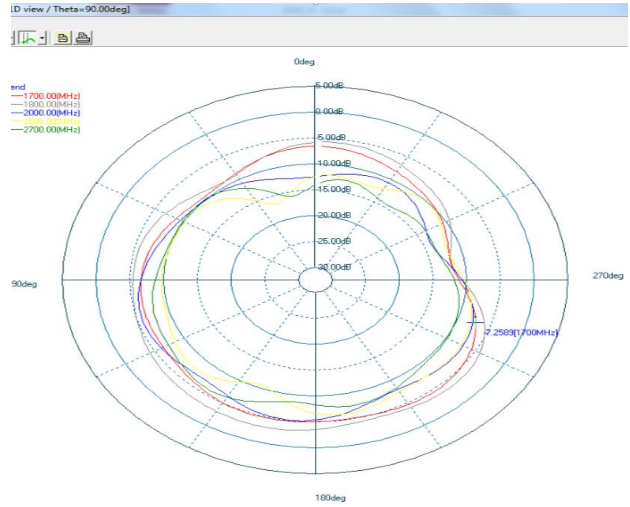
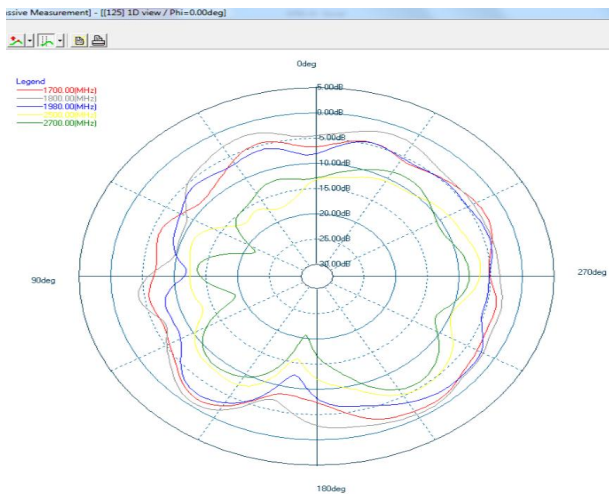
ssive Measurement] - [[1735] 1D view / Theta=90.00deg]



ve Measurement] - [[1731] 1D view / Phi=90.00deg]

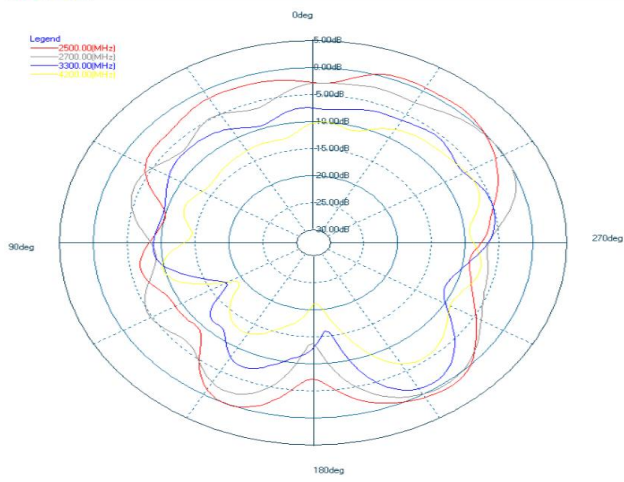


ANT4

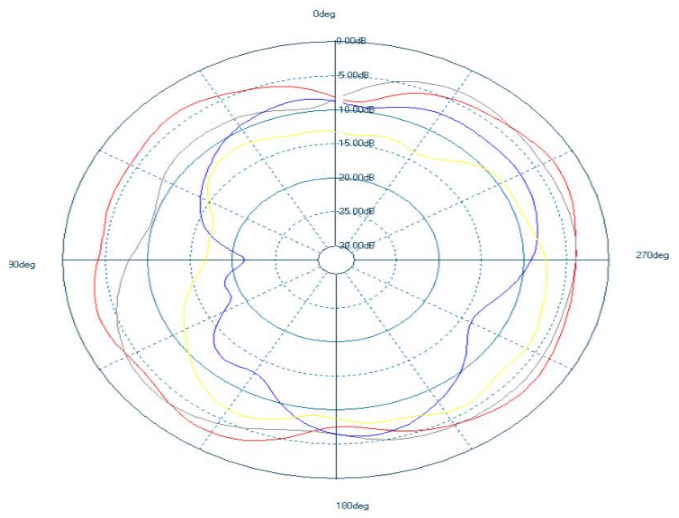


ANT5

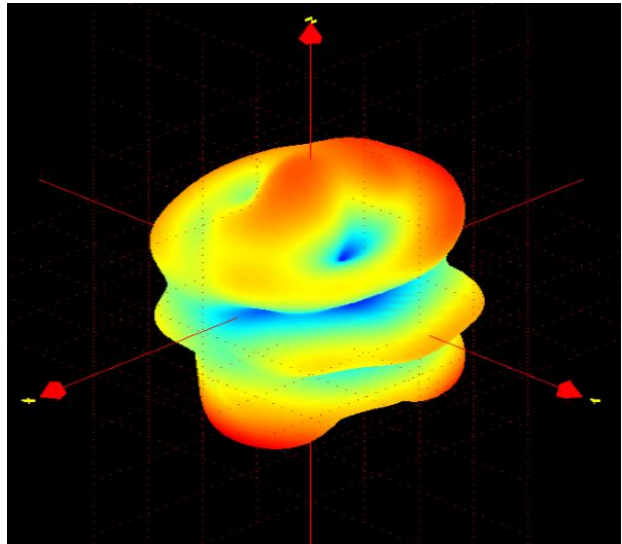
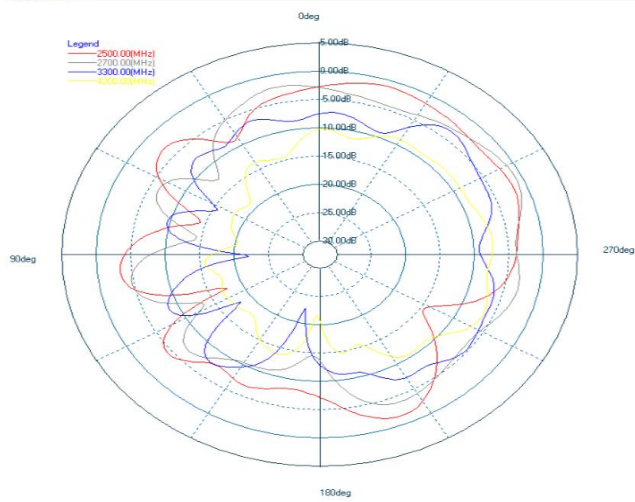
e Measurement - [1435] 1D view / Phi=0.00deg



1D view / Theta=90.00deg

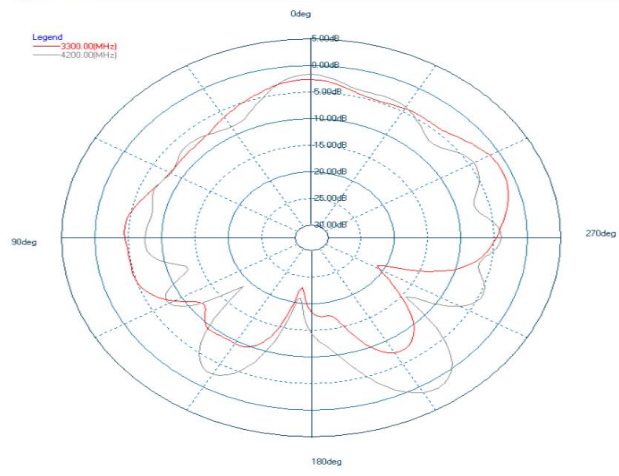


§ 1D view / Phi=90.00deg

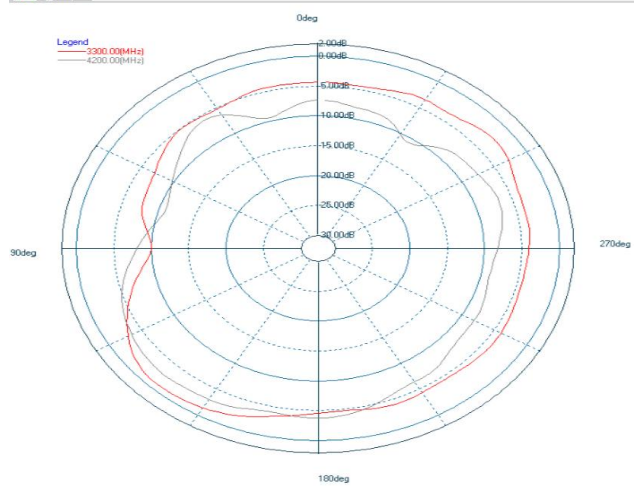


ANT6

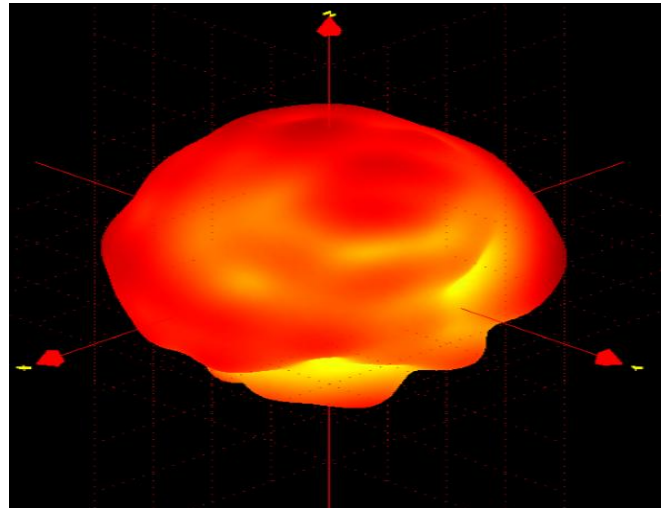
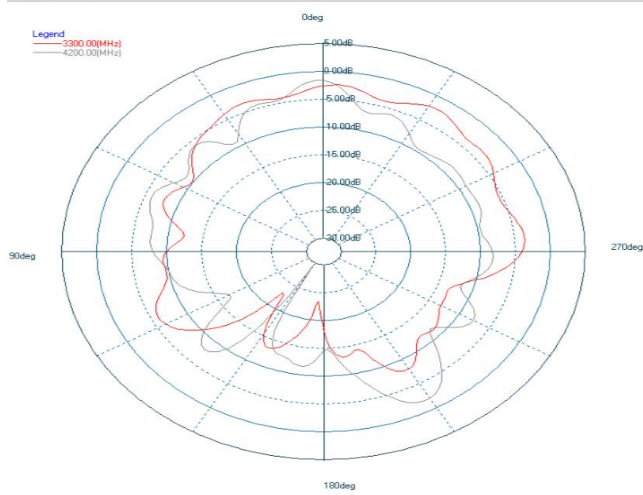
Measurement - [[1175] 1D view / Phi=0.00deg]



Measurement - [[1182] 1D view / Theta=90.00deg]

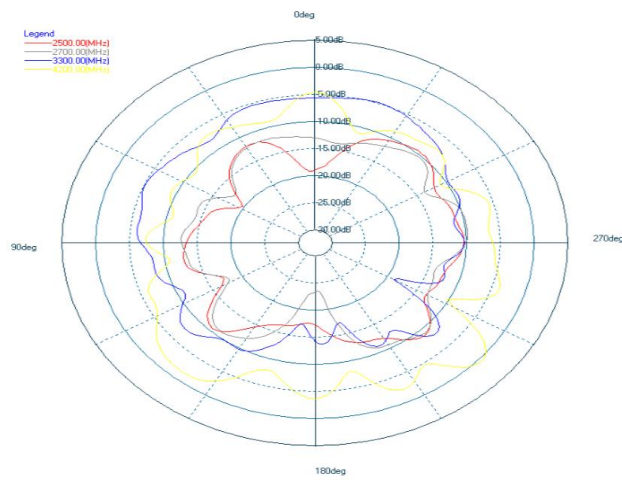


Measurement - [[1178] 1D view / Phi=90.00deg]

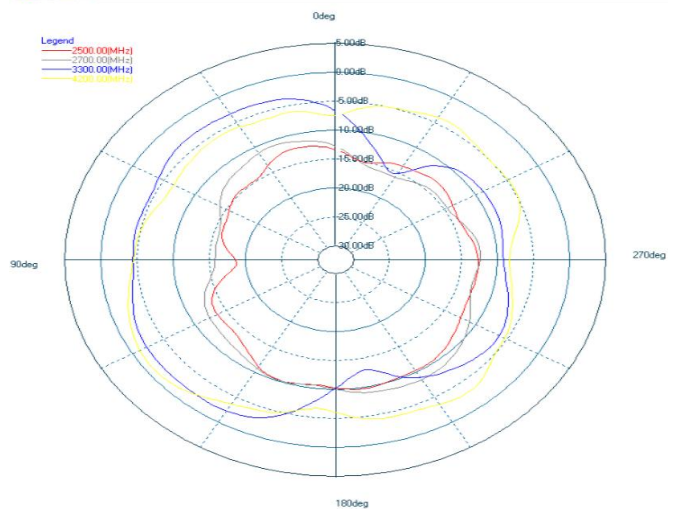


ANT7

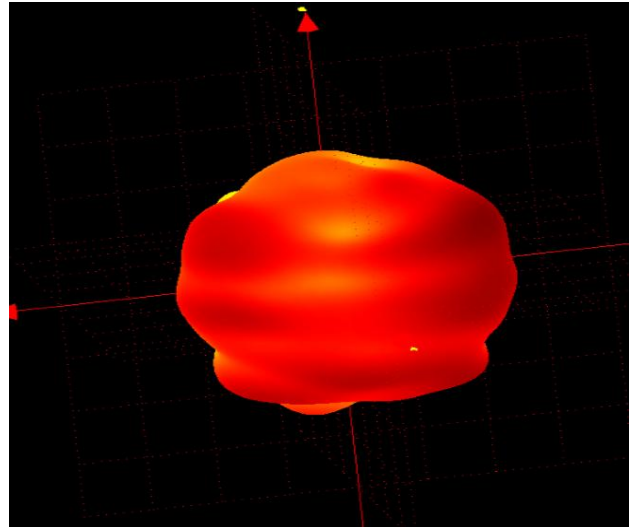
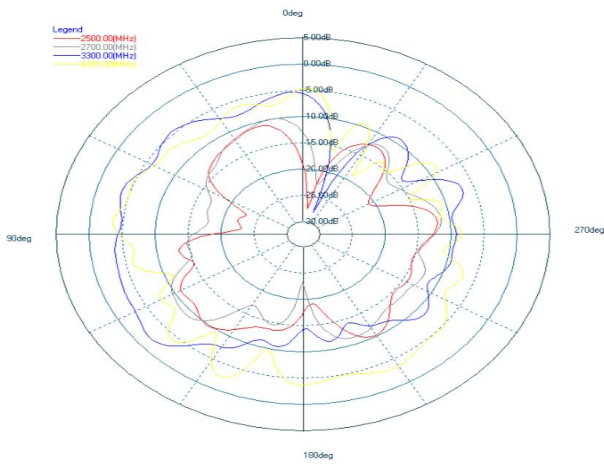
Measurement] - [[1512] 1D view / Phi=0.00deg



Measurement] - [[1519] 1D view / Theta=90.00deg

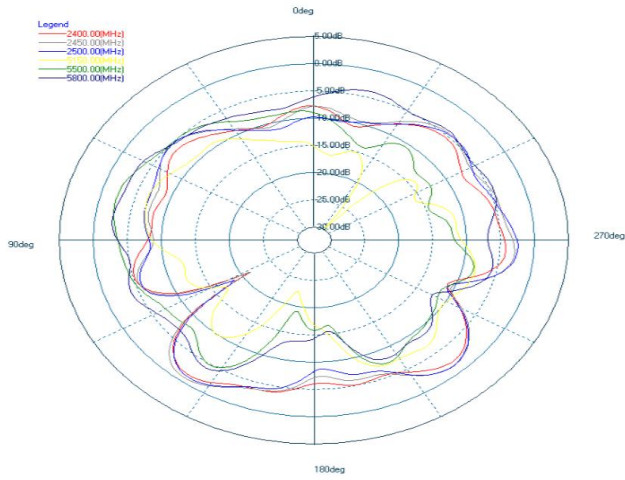


Measurement] - [[1515] 1D view / Phi=90.00deg

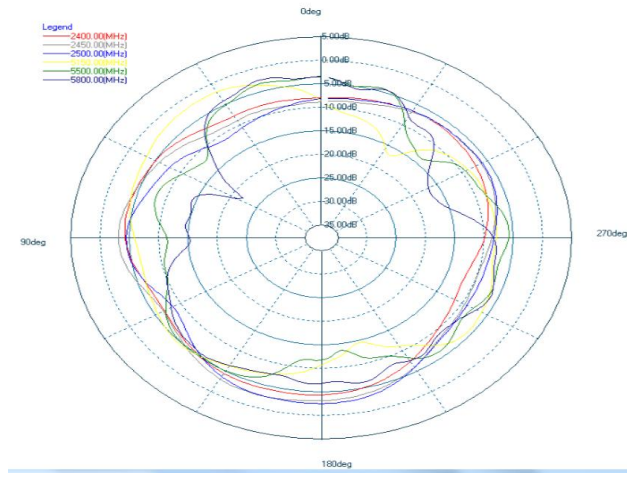


ANT8

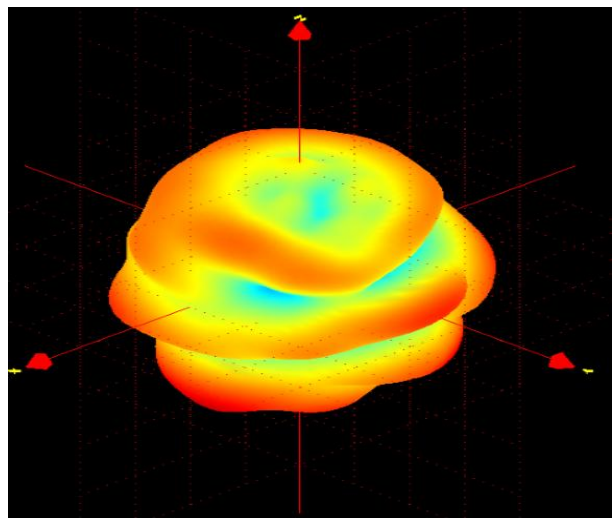
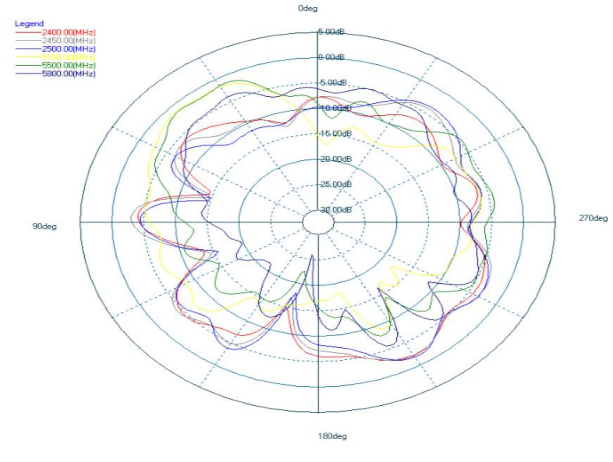
1D view / Phi=0.00deg



Essive Measurement - [[490] 1D view / Theta=90.00deg]



[486] 1D view / Phi=90.00deg]



ANT9

