SPECIFICATION

UNIMAX

R667L5 Antenna

Product approval sheet

Customer	Reliance	Band	5G: n1/n2/n3/n5/n25/n66/n71/n77/n78 4G: B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B25/B28/B66/B71 3G: B1/B2/B4/B5/B8 2G: 850/900/1800/1900
Project	R667L5	Colour	Black

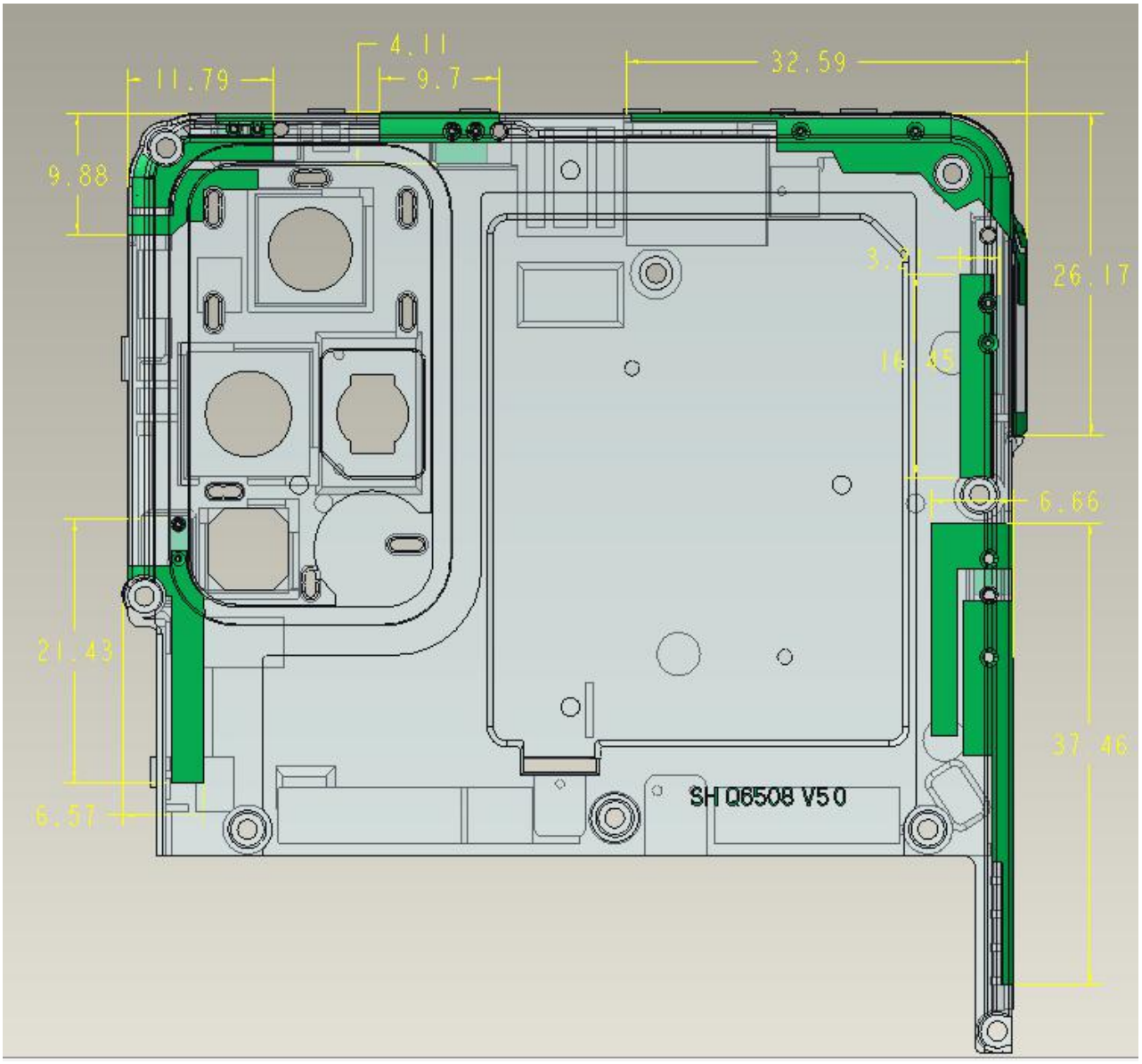
Customer check：

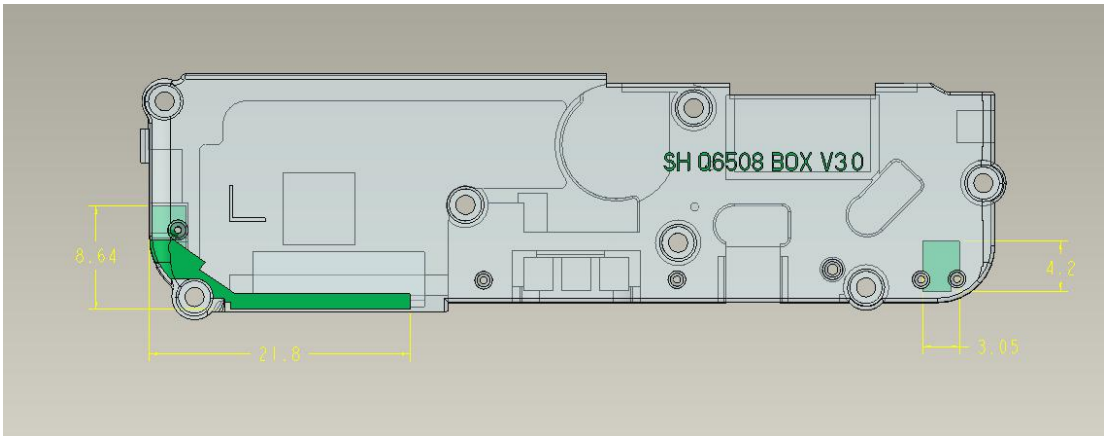
Reach requirement of customer：☼OK □NG

Contents

1 General description

1.1 Antenna appearing diagram

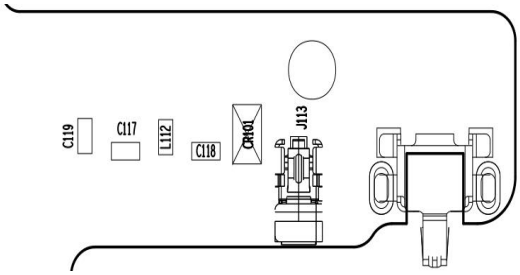




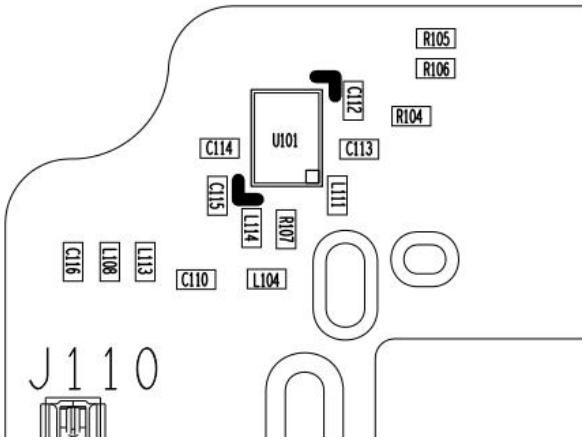
1.2 Antenna Matching circuits

ANT1

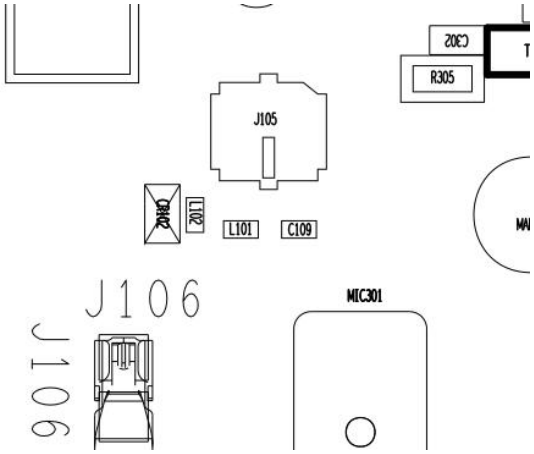
ANT1 matching		
C118		22pf
L112		6.9NH
C117		0Ω
C119		NC
L104		47nh
L114		nc
C110		22pF
L113		100nH
R107		0Ω



ANT1 Tuner matching		
RF1	C113	2.7pf
RF2	C114	1pF
RF3	C115	1.5pF
RF4	L111	NC
RF1	2/3/4/5G B5/B8+MHB	
RF2	4G:13/14(746-798) 5G:13/14(746-798)	
RF3	4G:12/17/28(699-746)(703-803) 5G:28	
RF4	4G:71(617-698) 5G:71(617-698)	

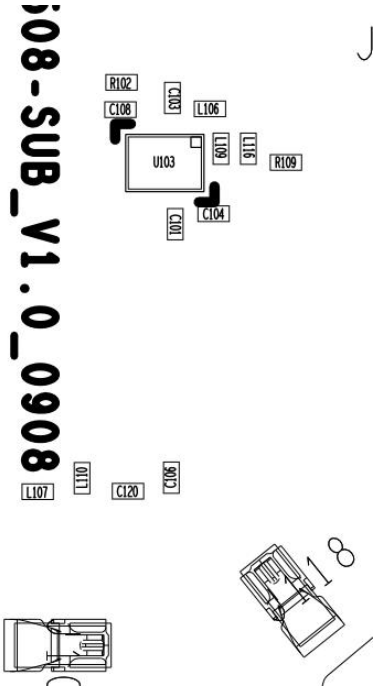


ANT2



ANT2 matching		
CR102		0.75PF
L102		NC
L101		1.5nh
C109		nc

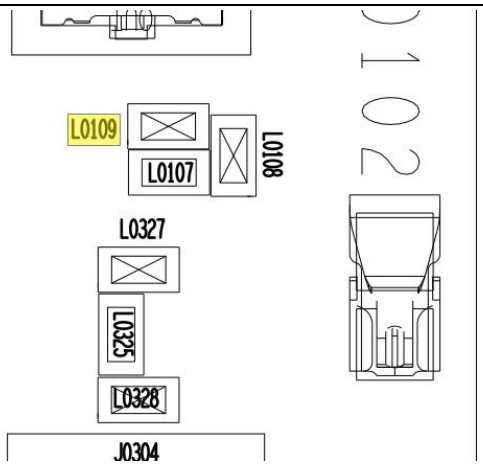
ANT3



ANT3 matching		
C106		0.5PF
C120		1.8nh
L110		nc
L107		0Ω
L116		0Ω
L109		nc

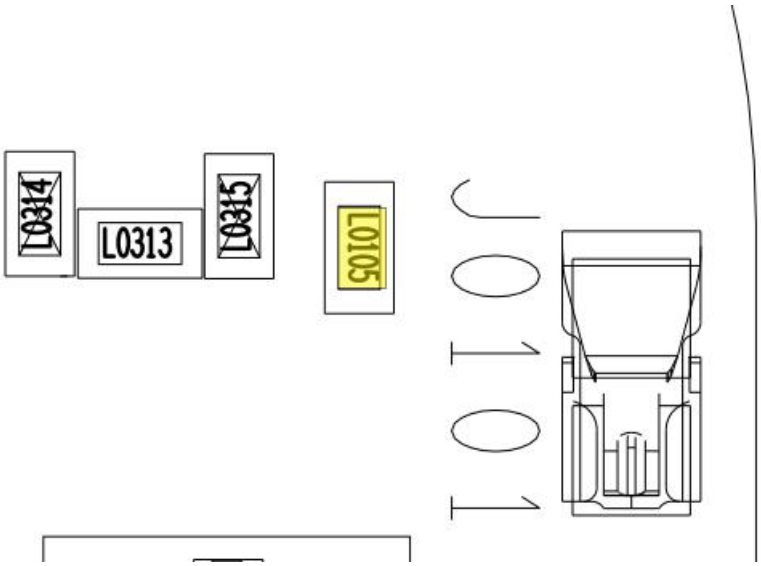
ANT4

ANT4 matching	
L0108	nc
L0107	0Ω
L0109	nc



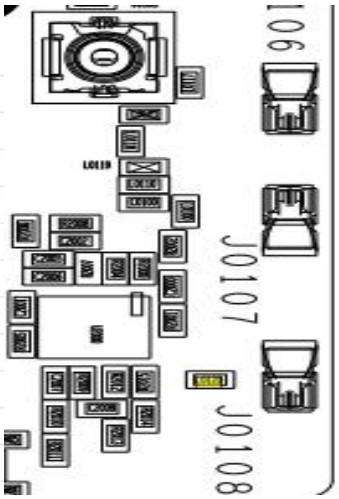
ANT5

ANT5 matching	
L0105	0Ω
L0104	18NH
L0101	0Ω
L0106	0.5PF
L0102	0Ω
C0102	22pF
R0100	68nH
L0113	1.2NH
R0101	15NH
L0114	56nh
L0115	22nh



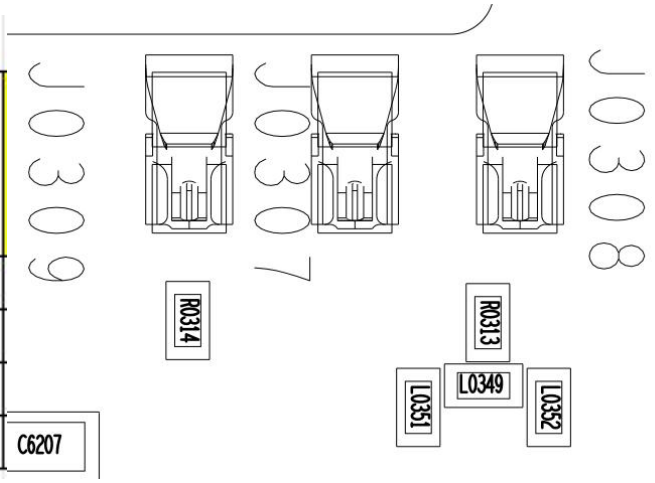
ANT7

ANT7 matching	
L0120	22PF
L0117	22PF
L0103	100NH
L0100	100NH
C0101	22PF
C0100	22PF
L0110	68NH
L0119	NC
L0118	0Ω
L0121	NC



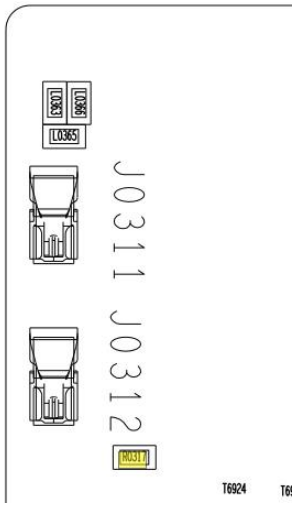
ANT8

ANT8 matching	
R0314	0Ω
R0313	0Ω
L0351	NC
L0349	1.8NH
L0352	NC



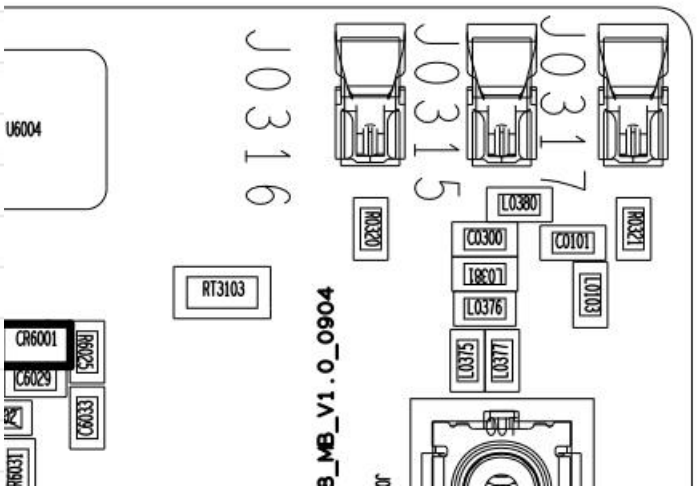
ANT9

ANT9 matching	
R0317	0Ω
L0365	NC
L0363	1NH
L0366	NC

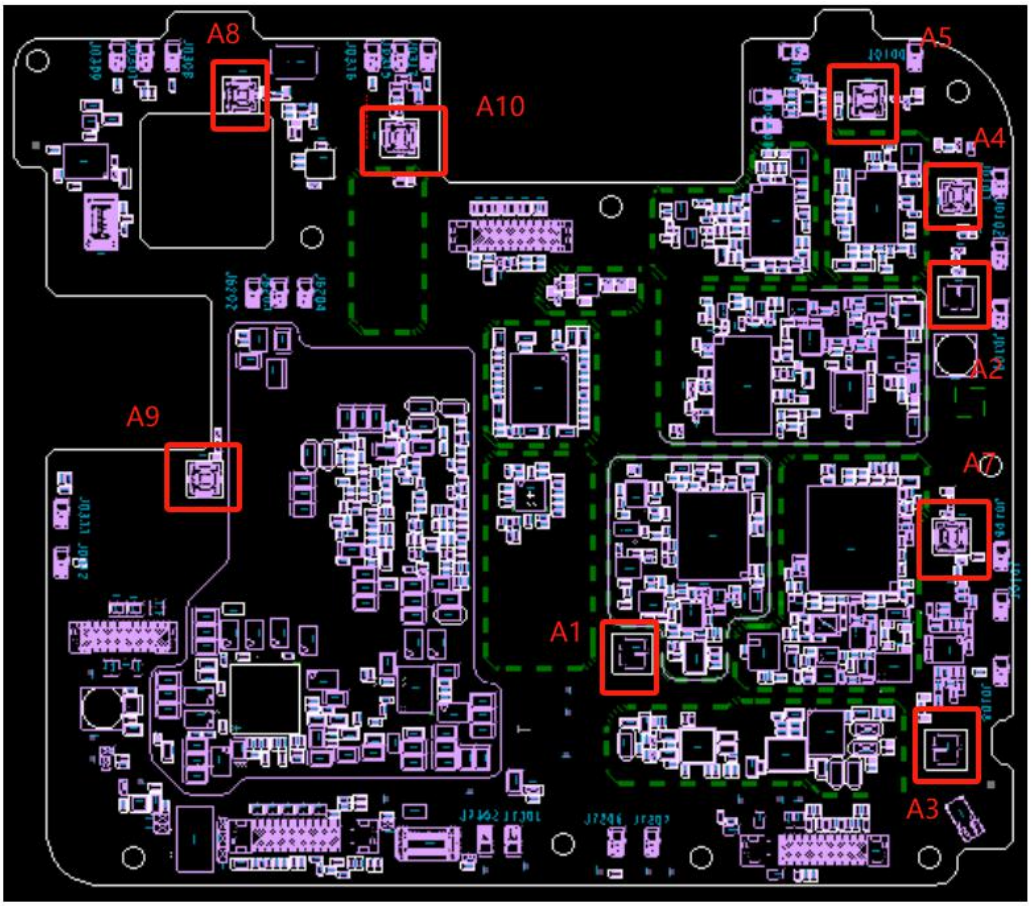


ANT10

ANT10 matching	
R0321	22pf
R0320	22pf
L0380	100nh
C0300	22pf
L0381	68nh
L0376	nc
L0375	0Ω
L0377	nc

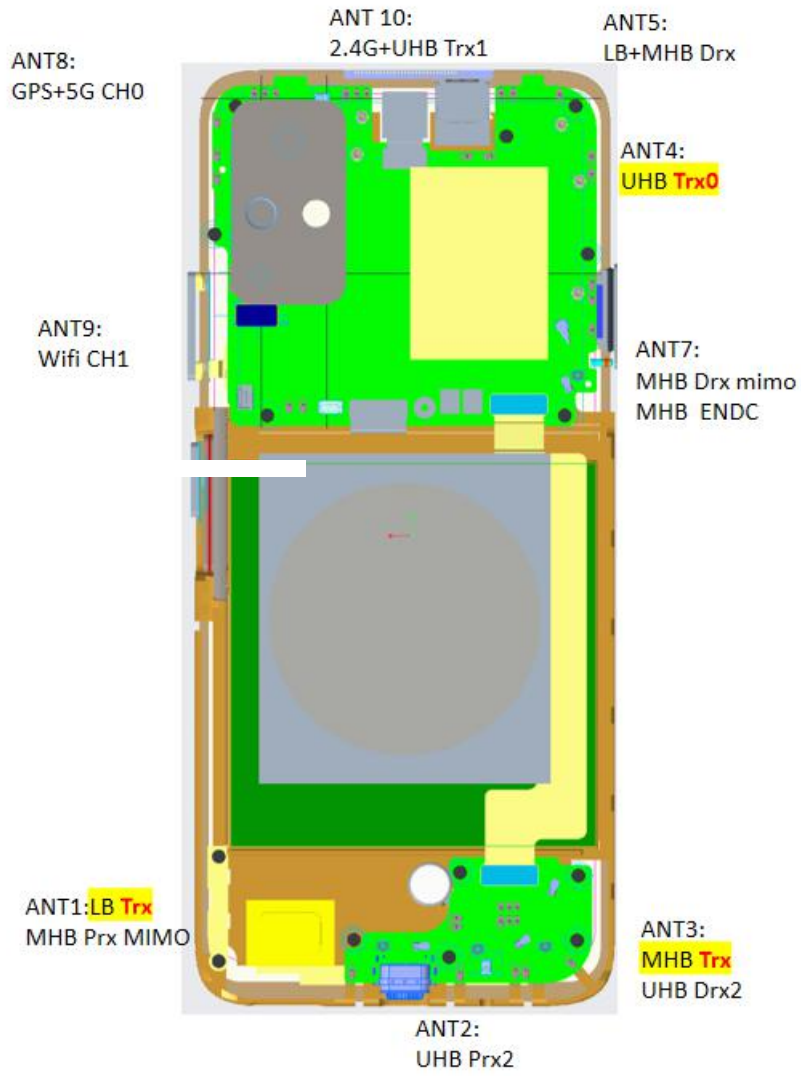


1.3 Antenna PORT



	NR	LTE	WCDMA	GSM	GPS	WiFi	BT
ANT1	TRX : N5/71 PRX MIMO: N2/N66/N1/N3/N25	TRX : B5/12/13/B8/B17 /B28/B71 PRX MIMO: B2/4/66/7 /1/3/B25	TRX : W5/8	B5/8			
ANT2	PRX :N48/77/78	PRX B48					
ANT3	TRX :N2/66/25/1/3 DRX2: N48/77/78	TRX :B2/4/66/1/3/7/25 DRX2:B48	TRX:W1/2/4	B1/2			
ANT4	TRX0 :N48/77/78	TRX0:B48					
ANT5	DRX:N5/2/66/71/25	DRX:B5/12/13/2/4/66/1/3/7/8/17/28/71	DRX:1/2/4/5/8	B1/2/5/8			
ANT7	DRX(ENDC):N2/66/25/1/3	DRX:B2/4/66/1/3/7/25					
ANT8					GPS	WIFI CH0	BT
ANT9						WIFI CH1	
ANT10	TRX1:N48/77/78	TRX1:B48					

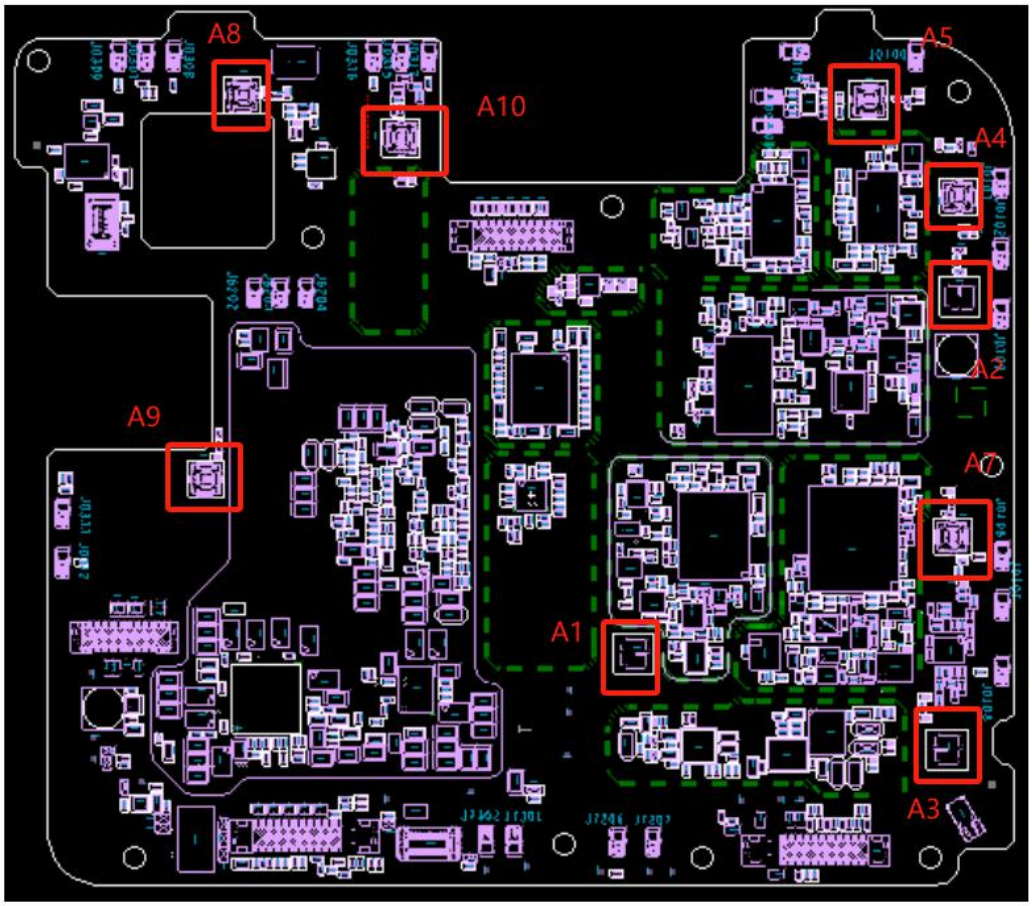
1.4 Antenna location



Antenna Location	Support Function	Top Side(mm)	Bottom Side(mm)	Left Side(mm)	Right Side(mm)
ANT1	LB TRX+MHB PRX MIMO	106	1.1	1.1	47.5
ANT2	UHB PRX2	162.2	1.1	30.5	17
ANT3	MHB TRX+UHB DRX2	134.3	1.1	60.9	1.1
ANT4	UHB TRX0	15.4	133.5	70	3.6
ANT5	LB DRX+MHB DRX	2.3	152.5	43.8	2.3
ANT7	MHB DRX MIMO+MHB ENDC	36.3	92.2	68	2.3

ANT8	GPS+WIFI CH0	2.3	152.5	2.3	62.6
ANT9	WIFI CH1	39.7	108.2	6.1	68.4
ANT10	UHB TRX1	2.3	160	23.2	44.8

1.5 RF port

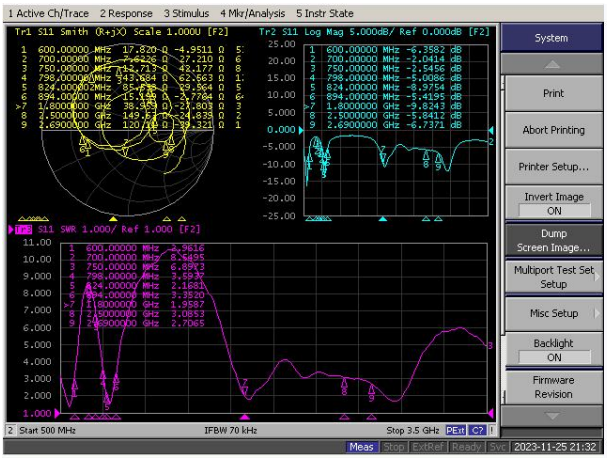


2 Electrical performance

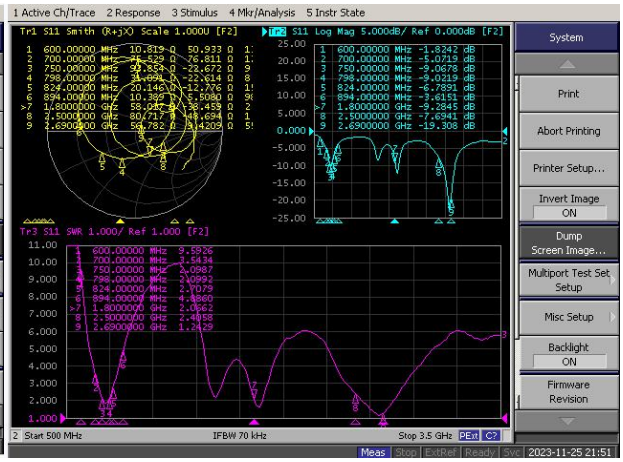
2.1 VSWR

ANT1

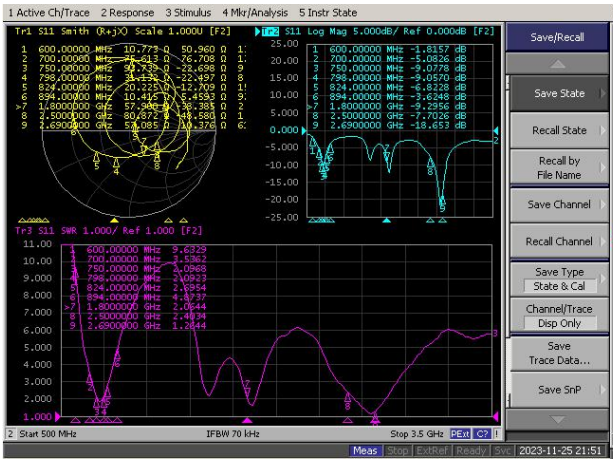
RF1



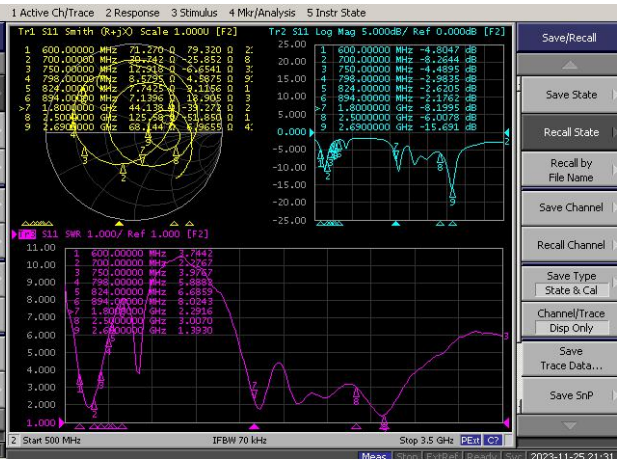
RF2



RF3



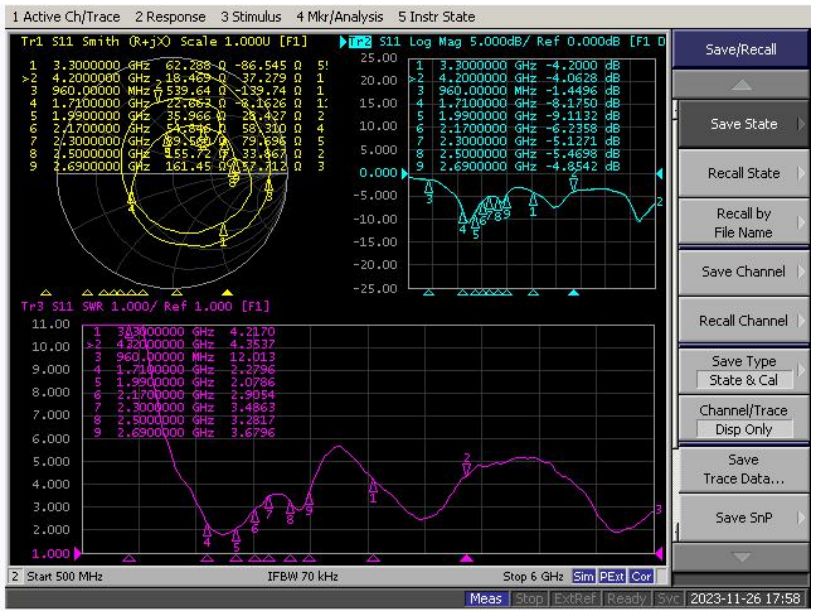
RF4



ANT2


1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 Smith (R+jX) Scale 1.000U [F1]
Tr2 S11 Log Mag 5.000dB/ Ref 0.000dB [F1]
Tr3 S11 SWR 1.000/ Ref 1.000 [F1]
Display
Allocate Channels
Num of Traces 3
Allocate Traces
Display Data
Data -> Mem
Data Math OFF
Equation Editor...
Equation OFF
Edit Title Label
2 Start 500 MHz
IFBW 70 kHz
Stop 6 GHz
Meas
Ready
2023-11-26 19:39

ANT3


1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 Smith (R+jX) Scale 1.000U [F1]
Tr2 S11 Log Mag 5.000dB/ Ref 0.000dB [F1
Tr3 S11 SWR 1.000/ Ref 1.000 [F1]
Save/Recall
Save State
Recall State
Recall by File Name
Save Channel
Recall Channel
Save Type State & Cal
Channel/Trace Disp Only
Save Trace Data...
Save SnP
2 Start 500 MHz
IFBW 70 kHz
Stop 6 GHz
Meas
Ready
2023-11-26 17:58

ANT4

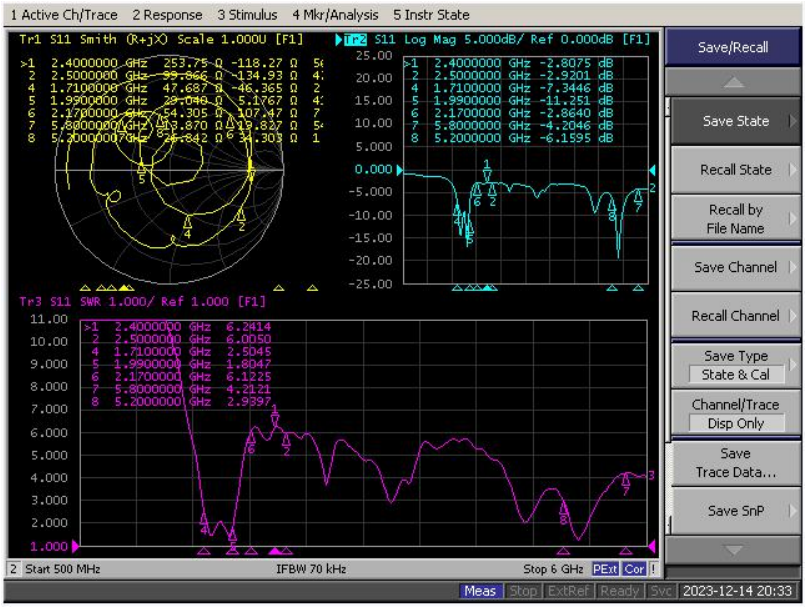

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 Smith (R+jX) Scale 1.000U [F1]
Tr2 S11 Log Mag 5.000dB/ Ref 0.000dB [F1]
S11 SWR 1.000/ Ref 1.000 [F1]
System
Print
Abort Printing
Printer Setup...
Invert Image
ON
Dump Screen Image...
Multiport Test Set Setup
Misc Setup
Backlight
ON
Firmware Revision
Start 600 MHz
IFBW 70 kHz
Stop 4.5 GHz

ANT5

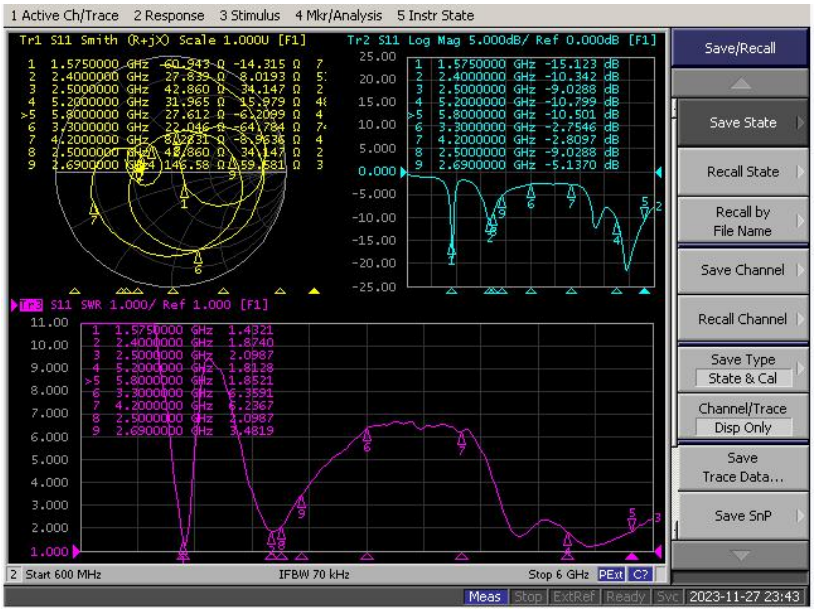

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Save/Recall
Save State
Recall State
Recall by File Name
Save Channel
Recall Channel
Save Type State & Cal
Channel/Trace Disp Only
Save Trace Data...
Save SnP
Marker 4 600.0000000 MHz
Marker
Marker 1
Marker 2
Marker 3
Marker 4
More Markers
Ref Marker
Clear Marker Menu
Marker -> Ref Marker
Ref Marker Mode OFF
Return
Start 600 MHz
IFBW 70 kHz
Stop 4.5 GHz


1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Save/Recall
Save State
Recall State
Recall by File Name
Save Channel
Recall Channel
Save Type State & Cal
Channel/Trace Disp Only
Save Trace Data...
Save SnP
Start 600 MHz
IFBW 70 kHz
Stop 4.5 GHz

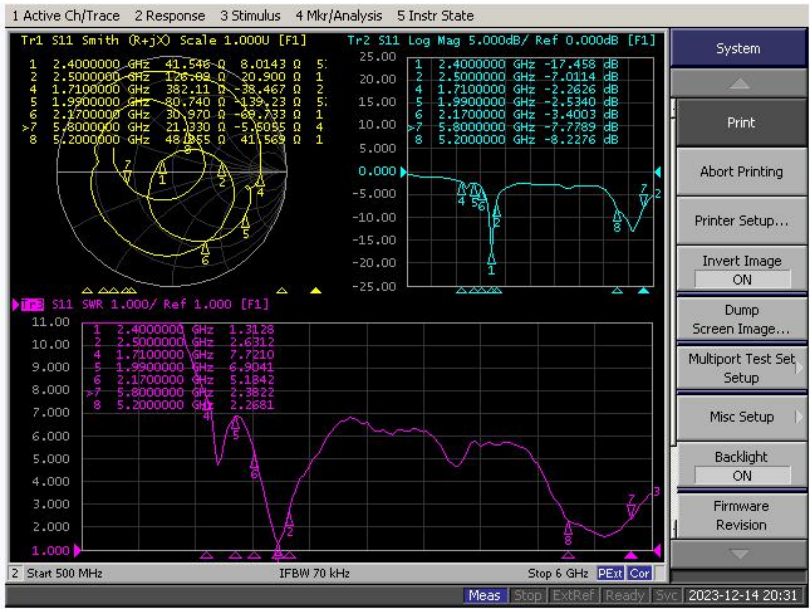
ANT7


1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 Smith (R+jX) Scale 1.000U [F1]
Tr2 S11 Log Mag 5.000dB/ Ref 0.000dB [F1]
Tr3 S11 SWR 1.000/ Ref 1.000 [F1]
Save/Recall
Save State
Recall State
Recall by File Name
Save Channel
Recall Channel
Save Type State & Cal
Channel/Trace Disp Only
Save Trace Data...
Save SnP
2 Start 500 MHz
IFBW 70 kHz
Stop 6 GHz
Meas
2023-12-14 20:33

ANT8


1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 Smith (R+jX) Scale 1.000U [F1]
Tr2 S11 Log Mag 5.000dB/ Ref 0.000dB [F1]
Tr3 S11 SWR 1.000/ Ref 1.000 [F1]
Save/Recall
Save State
Recall State
Recall by File Name
Save Channel
Recall Channel
Save Type State & Cal
Channel/Trace Disp Only
Save Trace Data...
Save SnP
2 Start 600 MHz
IFBW 70 kHz
Stop 6 GHz
Meas
2023-11-27 23:43

ANT9



ANT10

2.2 Efficiency &Gain

ANT1

B5

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
800	20.08	-6.97	-3.25
810	22.7	-6.44	-2.98
820	23.82	-6.23	-2.85
830	23.27	-6.33	-2.85
840	22.27	-6.52	-2.89
850	20.32	-6.92	-3.18
860	19.47	-7.11	-3.43
870	18.04	-7.44	-3.82
880	17.84	-7.49	-3.99
890	16.62	-7.79	-4.3
900	15.37	-8.13	-4.73

B12

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
690	22.95	-6.39	-2.52
700	26.53	-5.76	-2.01
710	33.71	-4.72	-1.01
720	32.5	-4.88	-1.38
730	29.94	-5.24	-1.49
740	29.46	-5.31	-1.86
750	26.6	-5.75	-2.16
760	25.18	-5.99	-2.66
770	19.3	-7.14	-4.05
780	18.17	-7.41	-4.52
790	17.83	-7.49	-4.72

B13

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
740	27.51	-5.6	-2.15
750	30	-5.23	-1.58
760	30.9	-5.1	-1.89
770	24.87	-6.04	-3.03
780	23.51	-6.29	-3.38
790	24.64	-6.08	-3.19
800	28.36	-5.47	-2.66

B71

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
600	5.02	-13	-10.74
610	4.55	-13.42	-11.32
620	5	-13.01	-10.43
630	5.99	-12.23	-9.3
640	7.09	-11.49	-8.53
650	9.02	-10.45	-7.72
660	11.26	-9.48	-6.8
670	14.36	-8.43	-5.01
680	18.06	-7.43	-3.74
690	21.29	-6.72	-3.09
700	22.78	-6.42	-3.03

Passive Test For 中高频

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain Freq (MHz)	UHIS Effi (%)	DHIS Effi (dB)	Max Gain (dBi)
1710	7.35	-11.34	-8.62	2200	12.93	-8.88	-4.43
1720	8.28	-10.82	-7.94	2210	12.92	-8.89	-4.48
1730	9.35	-10.29	-7.33	2220	12.62	-8.99	-4.57
1740	10.15	-9.94	-6.85	2230	11.85	-9.26	-4.89
1750	10.56	-9.76	-6.58	2240	11.76	-9.3	-4.97
1760	12.11	-9.17	-5.65	2250	12.04	-9.19	-4.9
1770	13.42	-8.72	-4.92	2260	11.61	-9.35	-5.08
1780	16.07	-7.94	-3.94	2270	12.26	-9.12	-4.83
1790	17.79	-7.5	-3.37	2280	11.47	-9.41	-5.1
1800	18.72	-7.28	-2.93	2290	10.88	-9.63	-5.28
1810	19.1	-7.19	-2.83	2300	10.64	-9.73	-5.38
1820	19.37	-7.13	-2.53	2310	10.49	-9.79	-5.48
1830	19.21	-7.16	-2.67	2320	10.49	-9.79	-5.57
1840	18.73	-7.28	-2.71	2330	11.29	-9.47	-5.43
1850	18.09	-7.43	-3.15	2340	10.9	-9.63	-5.57
1860	16.93	-7.71	-3.47	2350	11.51	-9.39	-5.42
1870	16.19	-7.91	-3.87	2360	11.05	-9.57	-5.54
1880	16.22	-7.9	-4.04	2370	11.01	-9.58	-5.68
1890	17.01	-7.69	-4.1	2380	11.49	-9.4	-5.52
1900	18.54	-7.32	-4.09	2390	12.27	-9.11	-5.38
1910	21.07	-6.76	-4.06	2400	12.25	-9.12	-5.54
1920	23.54	-6.28	-3.56	2410	12.66	-8.97	-5.42
1930	24.44	-6.12	-3.34	2420	12.17	-9.15	-5.57
1940	24.38	-6.13	-3.47	2430	11.93	-9.24	-5.46
1950	24.44	-6.12	-3.31	2440	12.56	-9.01	-5.03
1960	23.81	-6.23	-3.23	2450	12.69	-8.96	-4.82
1970	24.14	-6.17	-2.83	2460	12.53	-9.02	-4.66
1980	23.88	-6.22	-2.56	2470	11.62	-9.35	-4.85
1990	22.63	-6.45	-2.44	2480	11.26	-9.49	-4.75
2000	21.99	-6.58	-2.25	2490	11.18	-9.51	-4.69
2010	19.98	-6.99	-2.39	2500	11.33	-9.46	-4.44
2020	18.74	-7.27	-2.53	2510	10.58	-9.75	-4.68
2030	18.1	-7.42	-2.69	2520	10.9	-9.62	-4.53
2040	16.56	-7.81	-3.26	2530	9.96	-10.02	-5.02
2050	15.58	-8.07	-4.07	2540	9.7	-10.13	-5.18
2060	14.76	-8.31	-5.07	2550	9.65	-10.16	-5.23
2070	14.51	-8.38	-4.85	2560	10.1	-9.96	-5
2080	15.46	-8.11	-4.46	2570	9.98	-10.01	-4.9
2090	15.84	-8	-4.28	2580	10.13	-9.94	-4.73
2100	15.64	-8.06	-4.24	2590	9.78	-10.09	-4.76
2110	13.51	-8.69	-4.85	2600	10.74	-9.69	-4.23
2120	12.77	-8.94	-5.02	2610	10.76	-9.68	-4.17
2130	13.17	-8.81	-4.68	2620	10.44	-9.81	-4.07
2140	13.57	-8.67	-4.46	2630	10.65	-9.73	-3.86
2150	12.97	-8.87	-4.45	2640	11.41	-9.43	-3.24
2160	12.71	-8.96	-4.42	2650	11.5	-9.39	-3.08
2170	12.22	-9.13	-4.57	2660	11.83	-9.27	-2.68
2180	11.96	-9.22	-4.66	2670	11.72	-9.31	-2.56
				2680	11.72	-9.31	-2.43
				2690	11.22	-9.5	-2.55
				2700	11	-9.59	-2.58

ANT2

Passive Test For UHB			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
3120	36.71	-4.35	-1.35
3140	35.45	-4.5	-1.6
3160	35.36	-4.51	-1.55
3180	34.77	-4.59	-1.34
3200	35.38	-4.51	-0.54
3220	34.76	-4.59	-0.11
3240	40.01	-3.98	0.94
3260	38.51	-4.14	1.19
3280	43.48	-3.62	1.93
3300	39.3	-4.06	1.78
3320	44.6	-3.51	2.36
3340	40.77	-3.9	1.88
3360	45.83	-3.39	2.14
3380	42.89	-3.68	1.68
3400	46.39	-3.34	1.89
3420	44.1	-3.56	1.59
3440	44.37	-3.53	1.47
3460	39.09	-4.08	0.95
3480	40.95	-3.88	1.07
3500	37.12	-4.3	0.46
3520	40.45	-3.93	0.54
3540	38.93	-4.1	0.06
3560	41.33	-3.84	-0.08
3580	42.41	-3.73	-0.16
3600	45.41	-3.43	0.14
3620	43.43	-3.62	-0.08
3640	46.88	-3.29	0.13
3660	43.42	-3.62	-0.21
3680	43.9	-3.58	-0.15
3700	39.14	-4.07	-0.79

Passive Test For UHB			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
3720	39.8	-4	-0.52
3740	37.57	-4.25	-0.97
3760	35.8	-4.46	-1.26
3780	31.6	-5	-1.88
3800	33.58	-4.74	-1.72
3820	32.67	-4.86	-2.11
3840	34.97	-4.56	-1.78
3860	37.31	-4.28	-1.65
3880	40.95	-3.88	-1.41
3900	43.51	-3.61	-1.06
3920	43.5	-3.61	-1.23
3940	48.22	-3.17	-0.9
3960	42.31	-3.74	-1.45
3980	46.39	-3.34	-1.09
4000	40.46	-3.93	-1.65
4020	40.16	-3.96	-1.57
4040	42.76	-3.69	-1.1
4060	43.12	-3.65	-1.19
4080	42.66	-3.7	-1.26
4100	43.55	-3.61	-1.35
4120	36.32	-4.4	-1.9
4140	39.34	-4.05	-1.32
4160	34.42	-4.63	-1.85
4180	29.96	-5.24	-2.31
4200	30.08	-5.22	-2.01
4220	28.77	-5.41	-1.81
4240	25.74	-5.89	-2.19
4260	25.3	-5.97	-2.16
4280	22.97	-6.39	-2.52
4300	22.73	-6.43	-2.69

ANT3

Passive Test For 中高频			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1710	29.64	-5.28	-0.41
1720	32.44	-4.89	0.07
1730	32.37	-4.9	0.08
1740	31.96	-4.95	0.1
1750	33.13	-4.8	0.31
1760	34.26	-4.65	0.56
1770	36.73	-4.35	0.89
1780	37.2	-4.29	0.83
1790	35.26	-4.53	0.62
1800	34.21	-4.66	0.57
1810	32.91	-4.83	0.56
1820	31.26	-5.05	0.43
1830	31.07	-5.08	0.48
1840	30.91	-5.1	0.47
1850	31.58	-5.01	0.54
1860	32.78	-4.84	0.7
1870	33.38	-4.77	0.78
1880	34.08	-4.67	0.9
1890	34.49	-4.62	1.01
1900	34.84	-4.58	1.14
1910	36.17	-4.42	1.35
1920	37.68	-4.24	1.56
1930	36.96	-4.32	1.37
1940	35.93	-4.45	1.21
1950	35.51	-4.5	1.15
1960	35.31	-4.52	1.07
1970	36.48	-4.38	1.04
1980	37.76	-4.23	0.92
1990	37.22	-4.29	0.63
2000	38.35	-4.16	0.51
2010	36.84	-4.34	0.19
2020	36.25	-4.41	0.03
2030	37.32	-4.28	0.19
2040	36.85	-4.34	0.19
2050	36.66	-4.36	0.11
2060	36.38	-4.39	-0.07
2070	35.93	-4.45	-0.37
2080	37.21	-4.29	-0.52
2090	37.73	-4.23	-0.74
2100	37.31	-4.28	-0.7
2110	32.23	-4.92	-1.21
2120	30.8	-5.11	-1.32
2130	31.75	-4.98	-0.99
2140	32.71	-4.85	-0.76
2150	31.73	-4.98	-0.75
2160	31.18	-5.06	-0.72
2170	30.6	-5.14	-0.87
2180	30.11	-5.21	-1.06
2190	32.22	-4.92	-0.96

Passive Test For 中高频			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2200	31.67	-4.99	-0.98
2210	30.84	-5.11	-0.94
2220	29.71	-5.27	-1.07
2230	27.89	-5.55	-1.28
2240	26.9	-5.7	-1.45
2250	26.73	-5.73	-1.53
2260	25.34	-5.96	-1.8
2270	26.21	-5.81	-1.82
2280	24.96	-6.03	-2.08
2290	23.7	-6.25	-2.31
2300	23.73	-6.25	-2.27
2310	23.93	-6.21	-2.21
2320	24.26	-6.15	-2.11
2330	26.6	-5.75	-1.58
2340	26.85	-5.71	-1.58
2350	27.77	-5.56	-1.34
2360	27.44	-5.62	-1.39
2370	26.95	-5.69	-1.28
2380	28.43	-5.46	-1.1
2390	30.19	-5.2	-0.77
2400	30.16	-5.21	-0.71
2410	29.91	-5.24	-0.68
2420	28.89	-5.39	-0.85
2430	27.59	-5.59	-1.04
2440	29.15	-5.35	-0.79
2450	29.45	-5.31	-0.71
2460	28.39	-5.47	-0.84
2470	26.66	-5.74	-1.14
2480	25.42	-5.95	-1.48
2490	24.85	-6.05	-1.69
2500	25.4	-5.95	-1.97
2510	23.9	-6.22	-2.41
2520	24.45	-6.12	-2.63
2530	23.11	-6.36	-3.18
2540	22.56	-6.47	-3.48
2550	22.73	-6.43	-3.36
2560	23.81	-6.23	-3.04
2570	23.22	-6.34	-3.11
2580	23.67	-6.26	-3.09
2590	22.52	-6.47	-3.14
2600	24.27	-6.15	-2.49
2610	24	-6.2	-2.24
2620	22.77	-6.43	-2.38
2630	23.23	-6.34	-2.26
2640	24.6	-6.09	-2.08
2650	24.42	-6.12	-2.19
2660	25.69	-5.9	-2.17
2670	25.62	-5.91	-2.38
2680	25.37	-5.96	-2.73
2690	24.01	-6.2	-3.29
2700	22.68	-6.44	-3.62

ANT4

Passive Test For UHB			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
3120	7.35	-11.34	-6.23
3140	8.05	-10.94	-5.86
3160	8.69	-10.61	-5.54
3180	10.03	-9.99	-5.1
3200	11.27	-9.48	-4.76
3220	11.42	-9.42	-5.07
3240	14.33	-8.44	-4.25
3260	14.29	-8.45	-4.3
3280	16.87	-7.73	-3.4
3300	17.05	-7.68	-3.05
3320	19.88	-7.02	-2.23
3340	20.32	-6.92	-1.99
3360	23.33	-6.32	-1.25
3380	20.98	-6.78	-1.7
3400	24.91	-6.04	-0.89
3420	23.19	-6.35	-1.28
3440	24.44	-6.12	-1.51
3460	25.09	-6	-1.7
3480	27.6	-5.59	-1.27
3500	27.28	-5.64	-1.39
3520	33.29	-4.78	-0.46
3540	32.9	-4.83	-0.43
3560	37.94	-4.21	0.07
3580	37.07	-4.31	-0.16
3600	40.44	-3.93	0.31
3620	37.41	-4.27	-0.07
3640	40.29	-3.95	0.33
3660	37.58	-4.25	-0.16
3680	35.91	-4.45	-0.25
3700	34.87	-4.58	-0.57

Passive Test For UHB			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
3720	37.8	-4.22	-0.43
3740	33.9	-4.7	-0.83
3760	37.14	-4.3	-0.32
3780	31.33	-5.04	-1.2
3800	32.57	-4.87	-0.86
3820	30.08	-5.22	-1.12
3840	27.58	-5.59	-1.42
3860	26.95	-5.69	-1.62
3880	27.91	-5.54	-1.35
3900	27.79	-5.56	-1.24
3920	28.76	-5.41	-0.87
3940	28.45	-5.46	-0.68
3960	27.98	-5.53	-0.65
3980	29.7	-5.27	-0.23
4000	25.05	-6.01	-1.1
4020	27.24	-5.65	-0.59
4040	23.47	-6.29	-1.37
4060	22.29	-6.52	-1.89
4080	21.17	-6.74	-2.48
4100	18.54	-7.32	-3.29
4120	17.53	-7.56	-3.11
4140	17.7	-7.52	-2.88
4160	15.96	-7.97	-3.34
4180	17.6	-7.55	-2.91
4200	17.4	-7.59	-3.03
4220	19.47	-7.11	-2.3
4240	19.45	-7.11	-2.01
4260	19.6	-7.08	-2.04
4280	21.39	-6.7	-1.8
4300	21.16	-6.75	-2.24

ANT5

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
800	7.68	-11.14	-8.36
810	8.27	-10.82	-7.42
820	9.32	-10.3	-6.65
830	9.23	-10.35	-6.73
840	7.71	-11.13	-7.79
850	6.63	-11.79	-8.66
860	5.42	-12.66	-9.72
870	4.81	-13.18	-9.94
880	4.38	-13.58	-9.9
890	4.73	-13.25	-9.83
900	4.45	-13.52	-10.12

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
700	3.75	-14.25	-10.78
710	4.21	-13.76	-10.3
720	3.49	-14.57	-11.16
730	3.84	-14.15	-10.81
740	3.7	-14.32	-11.11
750	4.05	-13.92	-10.44
760	3.34	-14.77	-11.35
770	2.45	-16.11	-13.03
780	3.27	-14.86	-11.67
790	4.6	-13.37	-10.27
800	6.08	-12.16	-8.97

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
690	15.01	-8.24	-4.39
700	14.21	-8.47	-4.92
710	15.78	-8.02	-4.31
720	13.19	-8.8	-5.34
730	10.3	-9.87	-6.31
740	9.68	-10.14	-6.63
750	8.82	-10.54	-7.24
760	7.83	-11.06	-7.69
770	8.12	-10.91	-7.72
780	8.54	-10.68	-7.33
790	7.84	-11.06	-7.98
800	9.6	-10.18	-6.82

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
600	3.05	-15.16	-12.29
610	2.6	-15.86	-12.57
620	2.93	-15.34	-12.12
630	3.64	-14.39	-11.39
640	4.8	-13.18	-10.26
650	6.23	-12.05	-8.32
660	8.65	-10.63	-6.57
670	11.1	-9.55	-5.59
680	12.57	-9.01	-5.17
690	12.65	-8.98	-5.3
700	12.05	-9.19	-5.68

Passive Test For 中寒频

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1710	12.85	-8.91	-3.11	2180	23.26	-6.33	-1.23
1720	13.73	-8.62	-2.93	2190	23.13	-6.36	-1.34
1730	13.51	-8.69	-2.96	2200	22.06	-6.56	-1.71
1740	13.21	-8.79	-3.08	2210	20.55	-6.87	-2.07
1750	14.69	-8.33	-2.7	2220	19.94	-7	-2.29
1760	15.07	-8.22	-2.7	2230	19.99	-6.99	-2.2
1770	15.57	-8.08	-2.93	2240	18.83	-7.25	-2.32
1780	15.71	-8.04	-3.34	2250	18.3	-7.37	-2.39
1790	15.48	-8.1	-3.66	2260	17.97	-7.46	-2.51
1800	15.64	-8.06	-3.71	2270	17.98	-7.45	-2.51
1810	16.51	-7.82	-3.39	2280	17.96	-7.46	-2.63
1820	15.68	-8.05	-3.76	2290	17.6	-7.54	-2.7
1830	16.21	-7.9	-3.69	2300	18.59	-7.31	-2.43
1840	16.46	-7.84	-3.6	2310	19.26	-7.15	-2.3
1850	17.8	-7.5	-3.18	2320	20.66	-6.85	-1.96
1860	21.08	-6.76	-2.55	2330	23.14	-6.36	-1.66
1870	23.03	-6.38	-2.4	2340	26.15	-5.82	-1.16
1880	24.79	-6.06	-2.34	2350	26.54	-5.76	-1.22
1890	26.61	-5.75	-2.22	2360	28.14	-5.51	-1.04
1900	29.13	-5.36	-1.94	2370	27.87	-5.55	-0.96
1910	32.01	-4.95	-1.55	2380	29.26	-5.34	-0.86
1920	34.82	-4.58	-1.2	2390	29.54	-5.3	-0.82
1930	34.48	-4.62	-1.57	2400	29.42	-5.31	-1.06
1940	33.24	-4.78	-2.09	2410	27.26	-5.65	-1.44
1950	33.26	-4.78	-2.09	2420	26.34	-5.79	-1.86
1960	32.22	-4.92	-2.03	2430	24.31	-6.14	-2.24
1970	31.09	-5.07	-2.2	2440	22	-6.58	-2.59
1980	29.95	-5.24	-2.11	2450	20.96	-6.79	-3.19
1990	28.89	-5.87	-2.42	2460	19.31	-7.14	-3.87
2000	22.54	-6.47	-2.82	2470	17.92	-7.47	-4.04
2010	17.14	-7.66	-3.84	2480	17.53	-7.56	-4.02
2020	13.47	-8.7	-4.76	2490	17.87	-7.48	-3.77
2030	11.89	-9.25	-4.85	2500	16.93	-7.71	-3.82
2040	10.74	-9.69	-4.77	2510	16.41	-7.85	-3.79
2050	10.72	-9.7	-4.46	2520	15.43	-8.12	-4.19
2060	11.42	-9.42	-4.15	2530	16.98	-7.7	-3.89
2070	12.35	-9.08	-3.77	2540	17.47	-7.58	-3.78
2080	13.78	-8.61	-3.43	2550	19.31	-7.14	-3.48
2090	15.56	-8.08	-2.91	2560	20.33	-6.92	-3.32
2100	16.84	-7.74	-2.56	2570	22.44	-6.49	-2.89
2110	17.21	-7.64	-2.49	2580	21.79	-6.62	-3.09
2120	17.74	-7.51	-2.43	2590	22.4	-6.5	-3
2130	19.27	-7.15	-2.01	2600	22.69	-6.44	-2.84
2140	20.78	-6.82	-1.75	2610	22.59	-6.46	-2.66
2150	21.61	-6.65	-1.56	2620	21.02	-6.77	-2.85
2160	21.94	-6.59	-1.48	2630	20.15	-6.96	-2.8
2170	23.36	-6.32	-1.2	2640	20.7	-6.84	-2.5
				2650	20.96	-6.79	-2.33
				2660	21.17	-6.74	-2.16
				2670	21.5	-6.68	-2.02
				2680	22.96	-6.39	-1.71
				2690	22.81	-6.42	-1.74
				2700	23.54	-6.28	-1.68

ANT7

Passive Test For 中高频			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1710	22.48	-6.48	-2.87
1720	26.26	-5.81	-2.25
1730	29.11	-5.36	-2
1740	30.9	-5.1	-1.71
1750	31.81	-4.97	-1.55
1760	33.95	-4.69	-1.21
1770	35.99	-4.44	-0.95
1780	36.01	-4.44	-1.04
1790	33.37	-4.77	-1.44
1800	31.59	-5	-1.79
1810	30.34	-5.18	-2.11
1820	28.12	-5.51	-2.56
1830	27.19	-5.66	-2.81
1840	25.7	-5.9	-3.16
1850	25.28	-5.97	-3.36
1860	26.59	-5.75	-3.12
1870	26.62	-5.75	-3.09
1880	25.63	-5.91	-3.24
1890	25.74	-5.89	-3.18
1900	26.11	-5.83	-3.06
1910	26.29	-5.8	-2.94
1920	26.55	-5.76	-2.72
1930	23.93	-6.21	-2.84
1940	21.02	-6.77	-3.25
1950	19.73	-7.05	-3.24
1960	17.58	-7.55	-3.6
1970	15.79	-8.01	-3.74
1980	14.49	-8.39	-4.16
1990	12.92	-8.89	-4.55
2000	11.2	-9.51	-5.29
2010	9.56	-10.19	-5.99
2020	7.83	-11.06	-6.74
2030	6.63	-11.78	-7.5
2040	5.68	-12.46	-8.2
2050	4.61	-13.36	-9.03
2060	3.5	-14.56	-10.22
2070	2.69	-15.7	-11.17
2080	2.33	-16.33	-11.99
2090	2.04	-16.9	-12.26
2100	1.92	-17.17	-12.48
2110	1.61	-17.94	-13.26
2120	1.64	-17.85	-13.44
2130	1.97	-17.05	-12.66
2140	2.34	-16.3	-12.23
2150	2.54	-15.95	-11.98
2160	2.81	-15.51	-11.54
2170	2.79	-15.54	-11.59

Passive Test For 中高频			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2180	3.05	-15.16	-11.11
2190	3.63	-14.4	-10.34
2200	4.01	-13.97	-9.91
2210	4.35	-13.61	-9.51
2220	4.36	-13.61	-9.51
2230	4.03	-13.95	-9.89
2240	3.99	-13.99	-9.89
2250	4.06	-13.91	-9.77
2260	3.83	-14.16	-9.95
2270	4.13	-13.84	-9.5
2280	3.77	-14.24	-9.81
2290	3.69	-14.33	-9.88
2300	3.63	-14.4	-9.97
2310	3.69	-14.33	-9.9
2320	3.79	-14.21	-9.85
2330	4.07	-13.9	-9.71
2340	3.91	-14.08	-9.88
2350	4.37	-13.59	-9.28
2360	4.28	-13.69	-9.65
2370	4.57	-13.4	-9.51
2380	4.96	-13.05	-9.09
2390	5.43	-12.65	-8.66
2400	5.55	-12.56	-8.52
2410	6.05	-12.18	-8.09
2420	5.98	-12.23	-8.08
2430	6.32	-11.99	-7.65
2440	6.89	-11.62	-7.12
2450	7.18	-11.44	-6.9
2460	7.51	-11.25	-6.74
2470	7.08	-11.5	-6.92
2480	7.12	-11.48	-6.94
2490	7.23	-11.41	-6.92
2500	7.32	-11.35	-6.87
2510	6.82	-11.66	-7.29
2520	7.1	-11.49	-7.16
2530	6.3	-12.01	-7.92
2540	6.12	-12.13	-8.24
2550	5.85	-12.33	-8.58
2560	5.96	-12.24	-8.49
2570	5.85	-12.33	-8.36
2580	5.81	-12.36	-7.86
2590	5.46	-12.62	-7.71
2600	5.86	-12.32	-6.96
2610	5.28	-12.77	-7.14
2620	4.6	-13.37	-7.48
2630	4.21	-13.76	-8.26
2640	4.25	-13.71	-8.83
2650	4.25	-13.71	-9.59
2660	4.61	-13.36	-9.32
2670	4.85	-13.14	-9.06
2680	5.38	-12.69	-8.59
2690	5.27	-12.78	-8.65
2700	5.27	-12.78	-8.64

ANT8

Passive Test For GPS			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1550	33.61	-4.73	1.15
1555	34.7	-4.6	1.26
1560	35.95	-4.44	1.39
1565	37.29	-4.28	1.49
1570	37.46	-4.26	1.43
1575	36.88	-4.33	1.29
1580	36.3	-4.4	1.17
1585	34.63	-4.61	0.83
1590	33.59	-4.74	0.55
1595	33.51	-4.75	0.42
1600	30.29	-5.19	-0.13

Passive Test For WIFI2.4			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	33.93	-4.69	0.68
2410	33.05	-4.81	0.44
2420	34.11	-4.67	0.41
2430	33.76	-4.72	0.28
2440	33.07	-4.81	0.17
2450	33.77	-4.71	0.31
2460	33.08	-4.8	0.18
2470	33.11	-4.8	0.19
2480	34.06	-4.68	0.22
2490	36.14	-4.42	0.52
2500	35.5	-4.5	0.28

Passive Test For WIFI5.8

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	25.42	-5.95	-1.13	5460	34.69	-4.6	0.08
5160	24.47	-6.11	-1.35	5470	34.76	-4.59	0.1
5170	24.98	-6.02	-1.38	5480	33.07	-4.81	-0.11
5180	24.82	-6.05	-1.37	5490	33.22	-4.79	-0.04
5190	25.69	-5.9	-1.18	5500	31.9	-4.96	-0.2
5200	26.2	-5.82	-1.07	5510	31.73	-4.99	-0.13
5210	27.68	-5.58	-0.76	5520	33.06	-4.81	-0.14
5220	27.76	-5.57	-0.84	5530	34.86	-4.58	0.26
5230	29.51	-5.3	-0.53	5540	36.18	-4.42	0.42
5240	28.76	-5.41	-0.32	5550	35.12	-4.54	0.28
5250	29.13	-5.36	-0.36	5560	34.4	-4.63	0.32
5260	29.75	-5.26	-0.24	5570	35.11	-4.55	0.36
5270	29.82	-5.25	-0.11	5580	36.68	-4.36	0.42
5280	30.96	-5.09	0.02	5590	36.11	-4.42	0.4
5290	32.61	-4.87	0.25	5600	36.43	-4.39	0.48
5300	31.09	-5.07	-0.07	5610	36.2	-4.41	0.29
5310	31.22	-5.06	-0.12	5620	35.94	-4.44	0.1
5320	32.46	-4.89	0.05	5630	36.19	-4.41	0.03
5330	31.31	-5.04	-0.27	5640	35.43	-4.51	0.22
5340	32.98	-4.82	-0.17	5650	36.15	-4.42	0.12
5350	33.86	-4.7	-0.07	5660	37.44	-4.27	0.36
5360	32.86	-4.83	-0.28	5670	36.02	-4.43	0.44
5370	32.21	-4.92	-0.52	5680	36.13	-4.42	0.48
5380	32.72	-4.85	-0.55	5690	36.6	-4.37	0.44
5390	31.15	-5.07	-0.63	5700	36.34	-4.4	0.41
5400	36.25	-4.41	-0.04	5710	35.6	-4.49	0.28
5410	36.53	-4.37	-0.04	5720	33.84	-4.71	0
5420	35.37	-4.51	-0.04	5730	35.58	-4.49	0.04
5430	35.06	-4.55	-0.12	5740	35.34	-4.52	-0.27
5440	34.45	-4.63	-0.07	5750	36.42	-4.39	-0.03
5450	34.88	-4.57	0.05	5760	33.31	-4.77	-0.72
				5770	32.92	-4.83	-0.59
				5780	31.88	-4.97	-0.61
				5790	32.02	-4.95	-0.61
				5800	31.27	-5.05	-0.65
				5810	31.45	-5.02	-0.69
				5820	33.11	-4.8	-0.55
				5830	32.83	-4.84	-0.53
				5840	31.92	-4.96	-0.63
				5850	34.25	-4.65	-0.43

ANT9

Passive Test For WIFI2.4			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	27.68	-5.58	-1.87
2410	27.94	-5.54	-1.7
2420	28.78	-5.41	-1.5
2430	29.33	-5.33	-1.34
2440	29.5	-5.3	-1.32
2450	30.06	-5.22	-1.27
2460	29.94	-5.24	-1.33
2470	28.76	-5.41	-1.6
2480	28.85	-5.4	-1.64
2490	29.65	-5.28	-1.49
2500	28.62	-5.43	-1.61

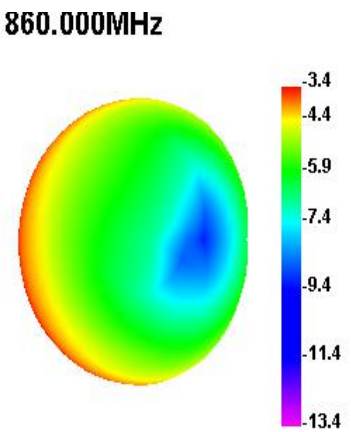
Passive Test For WIFI5.8							
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	12.56	-9.01	-3.53	5500	27.25	-5.65	-1.33
5160	13	-8.86	-3.39	5510	26.13	-5.83	-1.52
5170	13.9	-8.57	-3.21	5520	26.22	-5.81	-1.55
5180	14.23	-8.47	-3.02	5530	27	-5.69	-1.5
5190	14.68	-8.33	-3.11	5540	27.92	-5.54	-1.35
5200	14.6	-8.36	-3.05	5550	26.66	-5.74	-1.48
5210	15.86	-8	-2.56	5560	25.08	-6.01	-1.45
5220	16.34	-7.87	-2.4	5570	25.46	-5.94	-1.29
5230	17.84	-7.49	-1.93	5580	26.44	-5.78	-0.94
5240	16.95	-7.71	-1.81	5590	25.81	-5.88	-0.94
5250	16.46	-7.83	-1.89	5600	25.34	-5.96	-1.09
5260	16.96	-7.71	-1.63	5610	24.36	-6.13	-1.08
5270	17.26	-7.63	-1.48	5620	24.28	-6.15	-0.99
5280	17.77	-7.5	-1.15	5630	24.42	-6.12	-0.83
5290	18.41	-7.35	-0.71	5640	23.68	-6.26	-0.97
5300	17.75	-7.51	-0.86	5650	24.1	-6.18	-0.58
5310	17.34	-7.61	-0.87	5660	24.92	-6.03	-0.68
5320	18.74	-7.27	-0.71	5670	23.59	-6.27	-0.74
5330	18.52	-7.32	-0.69	5680	23.29	-6.33	-0.84
5340	20.31	-6.92	-0.49	5690	23.7	-6.25	-0.89
5350	21.23	-6.73	-0.48	5700	22.9	-6.4	-0.85
5360	20.36	-6.91	-0.88	5710	22.54	-6.47	-1.09
5370	21.39	-6.7	-0.71	5720	21.15	-6.75	-1.36
5380	23.39	-6.31	-0.44	5730	21.57	-6.66	-1.2
5390	22.33	-6.51	-0.94	5740	21.79	-6.62	-1.28
5400	27.62	-5.59	-0.1	5750	21.89	-6.6	-1.1
5410	27.98	-5.53	-0.36	5760	19.24	-7.16	-1.99
5420	28.9	-5.39	-0.29	5770	19.15	-7.18	-1.81
5430	28.92	-5.39	-0.58	5780	17.86	-7.48	-2.25
5440	28.92	-5.39	-0.69	5790	17.62	-7.54	-2.39
5450	28.27	-5.49	-1	5800	17.24	-7.63	-2.52
5460	29.38	-5.32	-0.51	5810	17.12	-7.66	-2.87
5470	29.12	-5.36	-0.84	5820	17.58	-7.55	-3.01
5480	28.35	-5.47	-0.99	5830	17.33	-7.61	-3.36
5490	28.6	-5.44	-0.89	5840	16.61	-7.8	-3.57
				5850	17.58	-7.55	-3.46

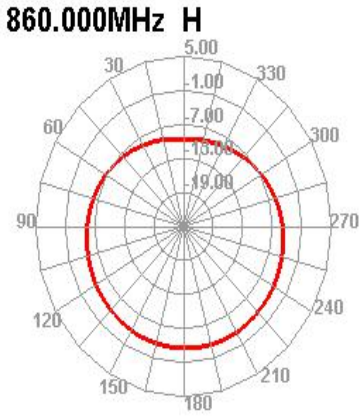
ANT10

Passive Test For UHB							
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
3120	12.73	-8.95	-4.86	3660	30.78	-5.12	-1.77
3140	12.68	-8.97	-4.59	3680	28.96	-5.38	-1.88
3160	12.51	-9.03	-4.86	3700	28.8	-5.41	-2.06
3180	14.1	-8.51	-4.88	3720	32.37	-4.9	-1.37
3200	14.25	-8.46	-5.01	3740	28.69	-5.42	-1.72
3220	13.24	-8.78	-5.68	3760	32.43	-4.89	-1.09
3240	16.9	-7.72	-4.68	3780	28.34	-5.48	-1.37
3260	15.91	-7.98	-5.04	3800	29.5	-5.3	-1.23
3280	18.97	-7.22	-4.21	3820	30.61	-5.14	-1.03
3300	19.31	-7.14	-4.11	3840	28.63	-5.43	-1.25
3320	22.22	-6.53	-3.43	3860	27.89	-5.55	-1.28
3340	22.63	-6.45	-3.22	3880	30.21	-5.2	-0.76
3360	25.75	-5.89	-2.34	3900	30.01	-5.23	-0.57
3380	24.45	-6.12	-2.18	3920	32.27	-4.91	-0.38
3400	30.92	-5.1	-0.91	3940	33.25	-4.78	-0.29
3420	28.17	-5.5	-1.12	3960	30.67	-5.13	-0.73
3440	29.92	-5.24	-1.07	3980	34.44	-4.63	-0.32
3460	28.32	-5.48	-1.65	4000	29.02	-5.37	-1.1
3480	28.91	-5.39	-1.71	4020	29.96	-5.23	-1.15
3500	26.92	-5.7	-2	4040	28.04	-5.52	-1.17
3520	31.03	-5.08	-1.56	4060	26.39	-5.78	-1.67
3540	30.73	-5.12	-1.86	4080	25.72	-5.9	-1.61
3560	33.93	-4.69	-1.66	4100	22.96	-6.39	-2.1
3580	30.11	-5.21	-2.4	4120	20.05	-6.98	-2.77
3600	33.17	-4.79	-2.26	4140	20.63	-6.86	-2.59
3620	29.48	-5.3	-2.65	4160	18.11	-7.42	-2.86
3640	31.74	-4.98	-2.03	4180	18.34	-7.37	-2.74
				4200	18.14	-7.41	-2.86
				4220	19.28	-7.15	-2.69
				4240	19.05	-7.2	-2.61
				4260	19.14	-7.18	-2.49
				4280	20.47	-6.89	-2.25
				4300	18.4	-7.35	-2.92

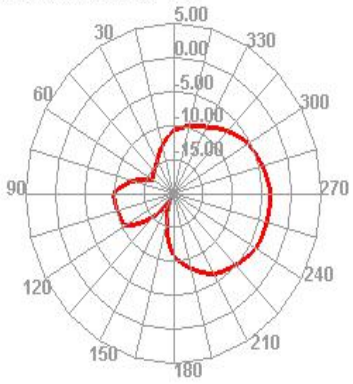
2.3 3D Pattern

ANT1





860.000MHz E1



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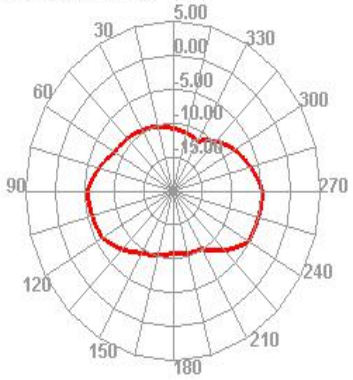

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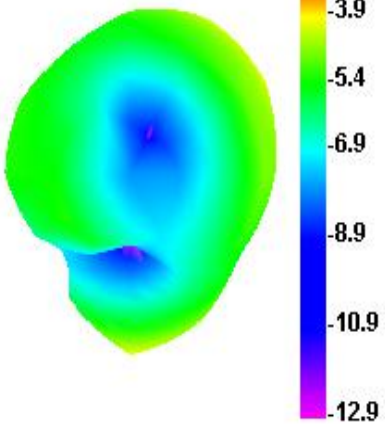
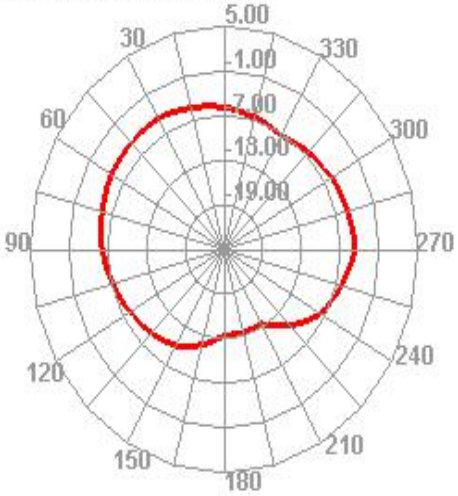


1800.000MHz H



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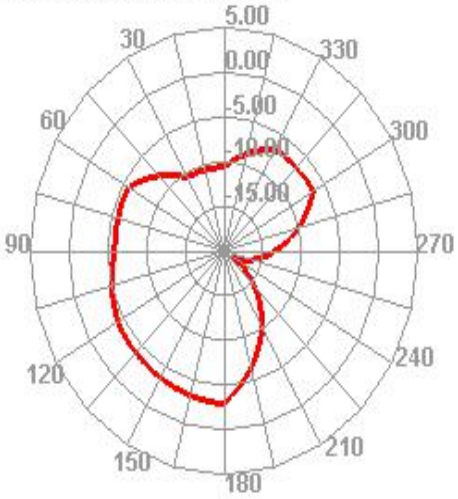

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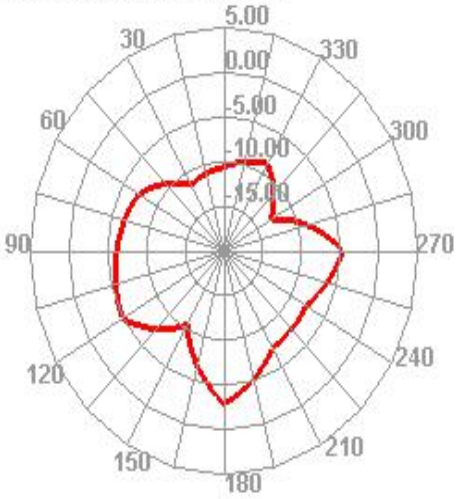

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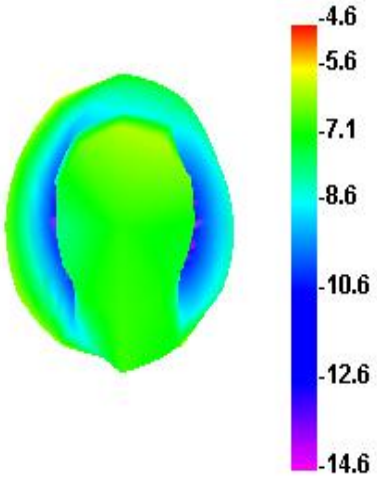

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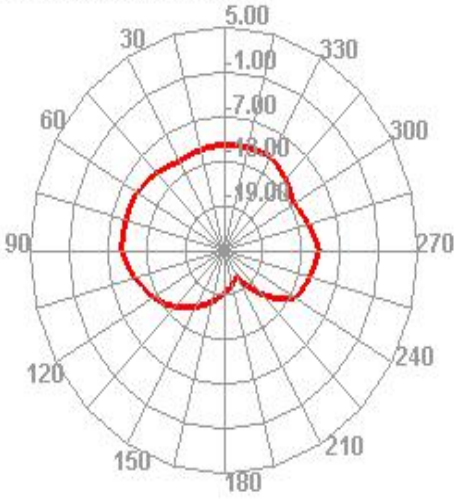

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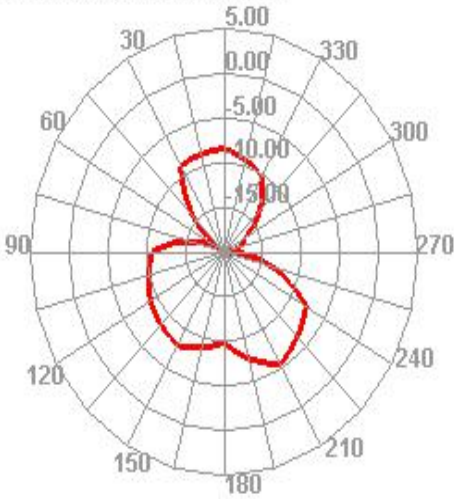

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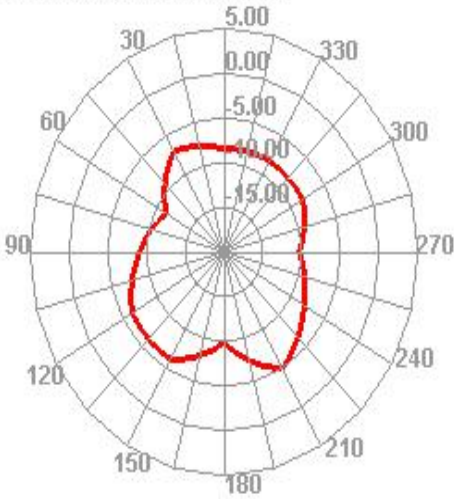

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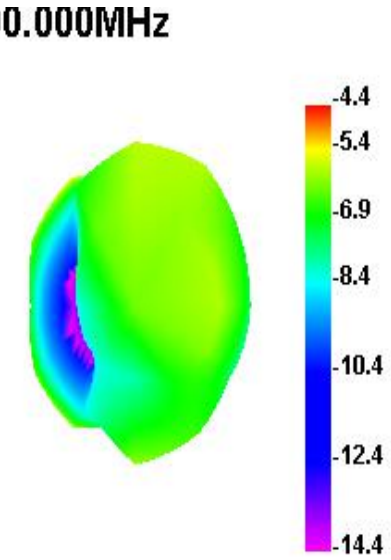

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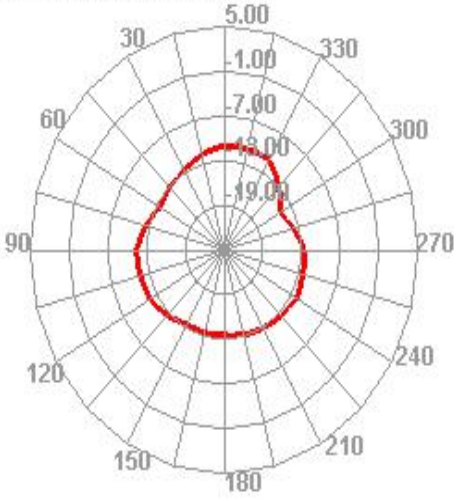

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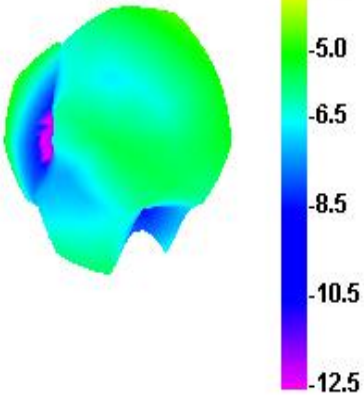

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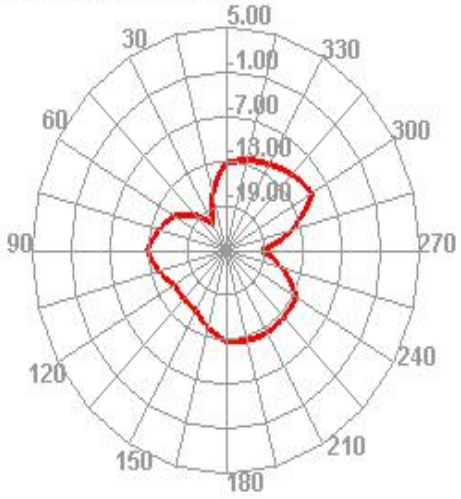
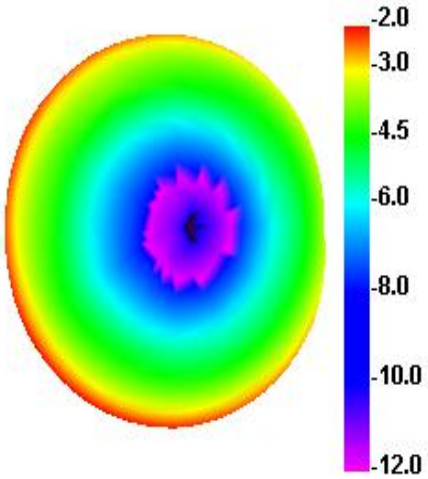


700.000MHz



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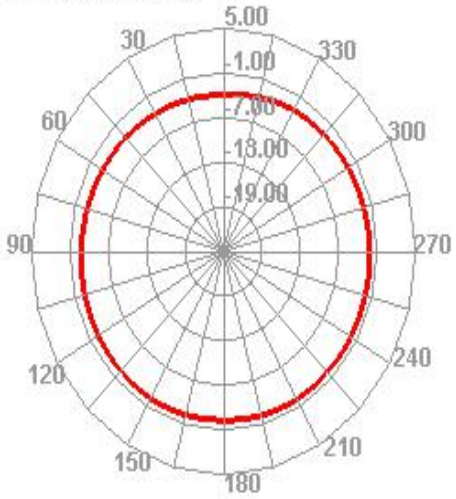

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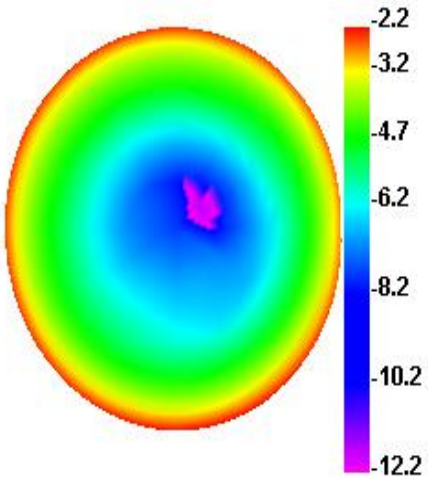

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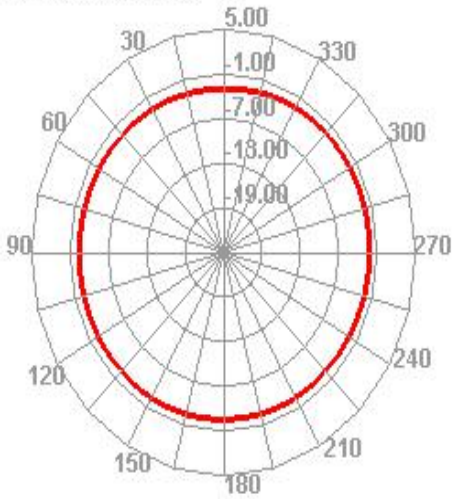

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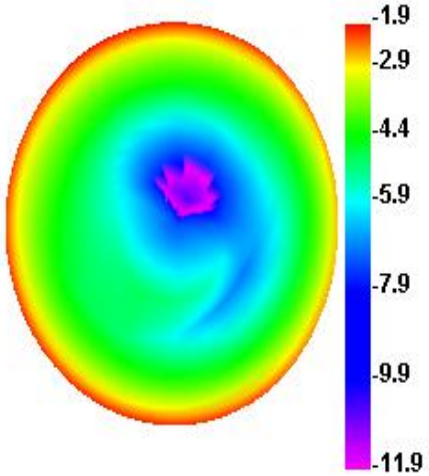

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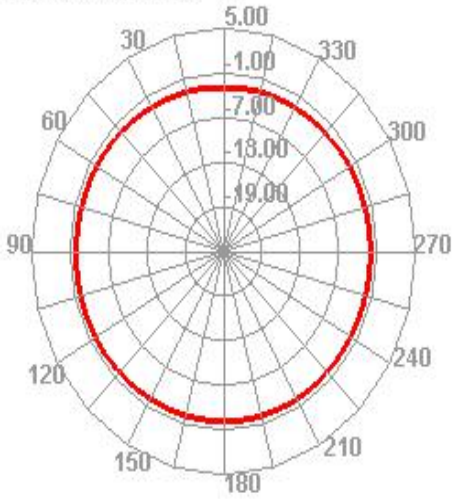

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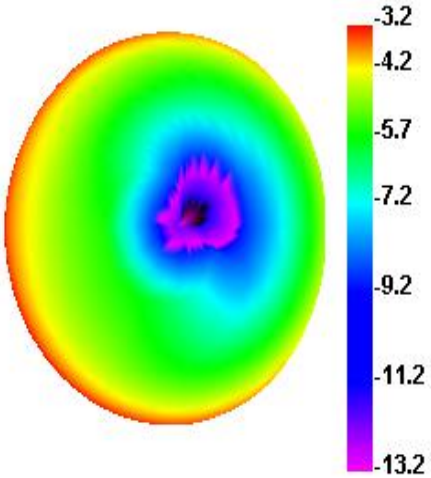

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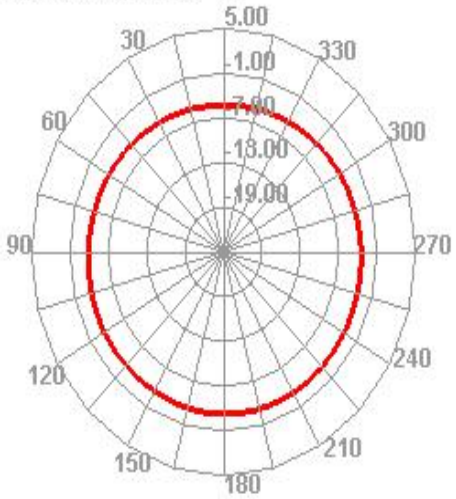

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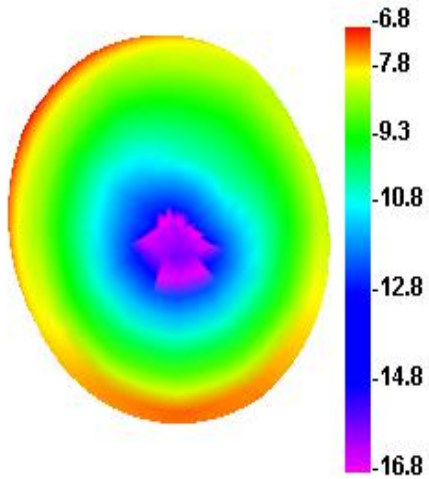

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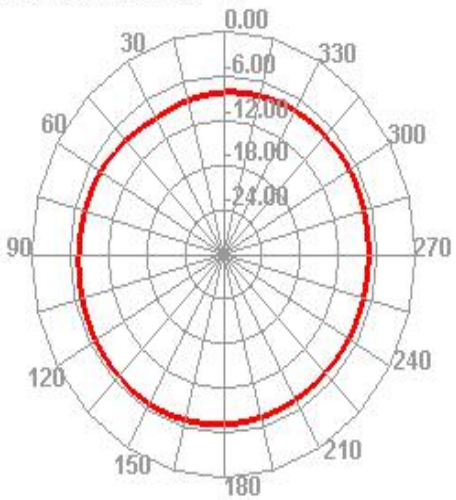

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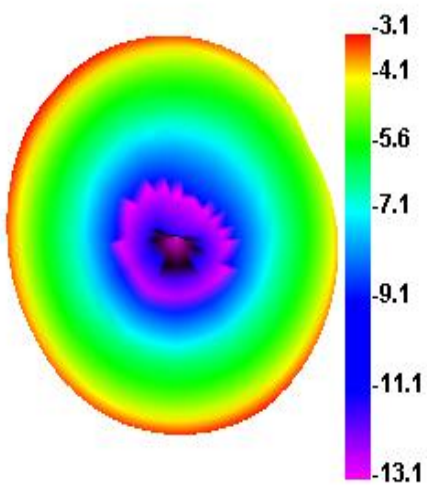

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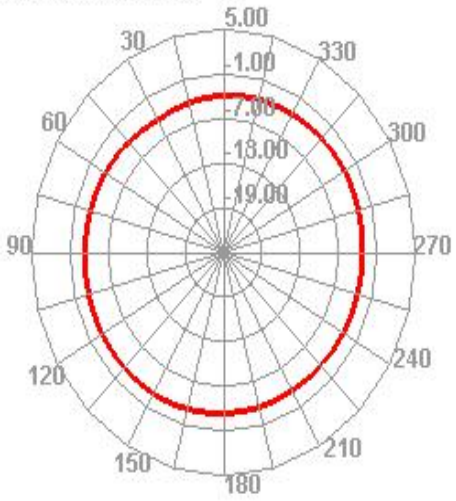

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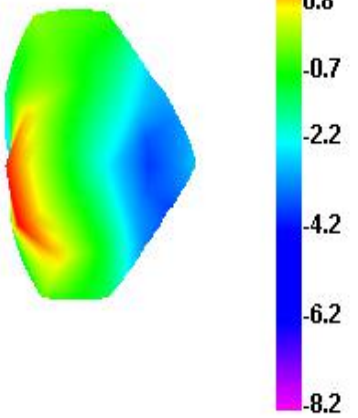

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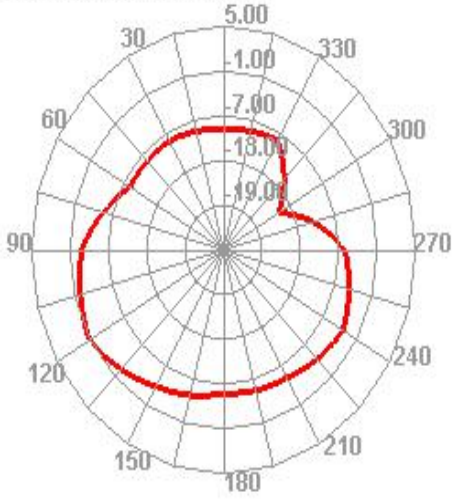

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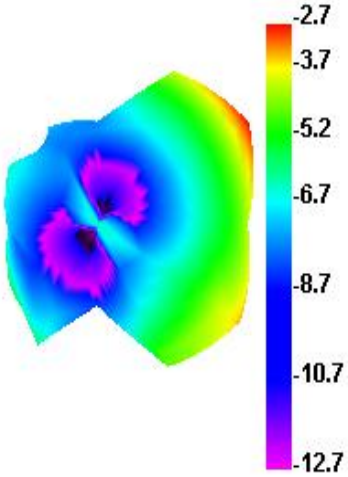

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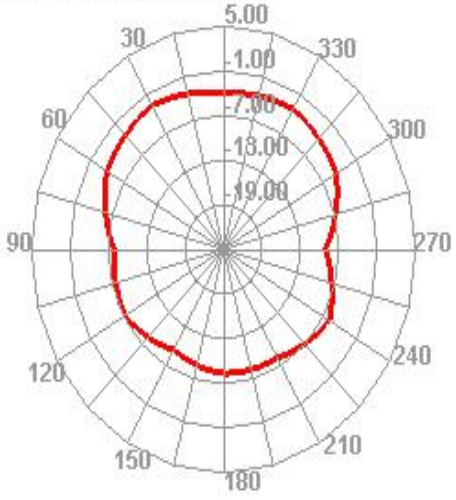

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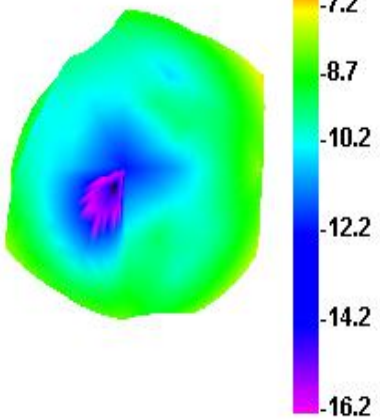

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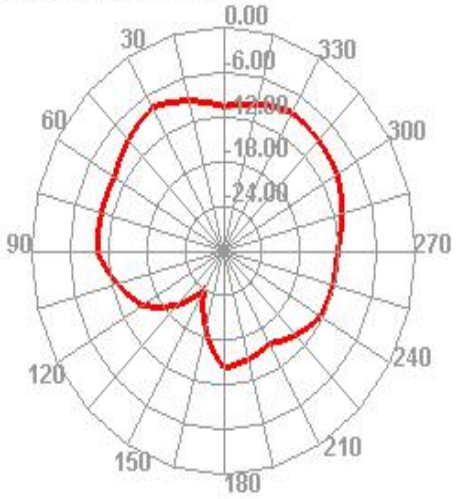

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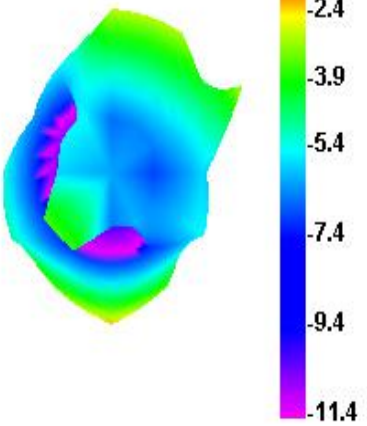

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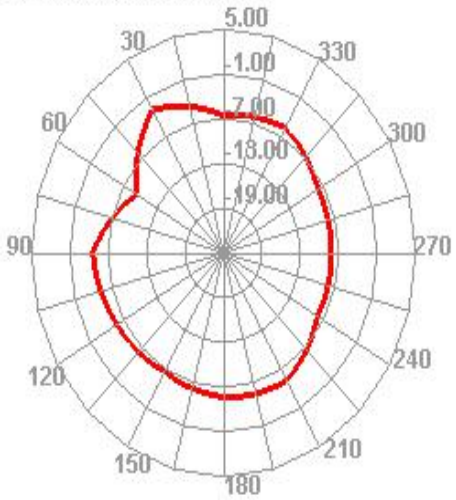

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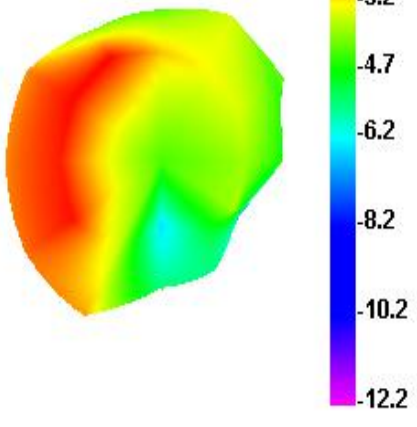

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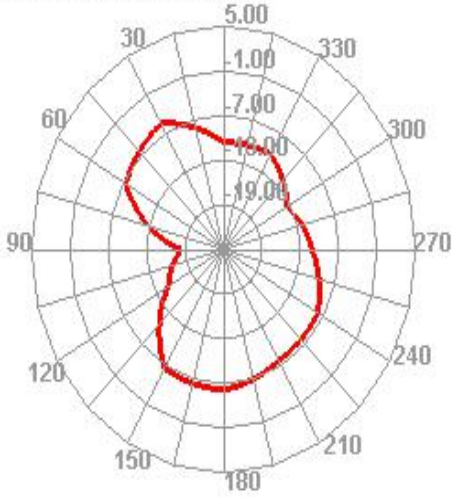

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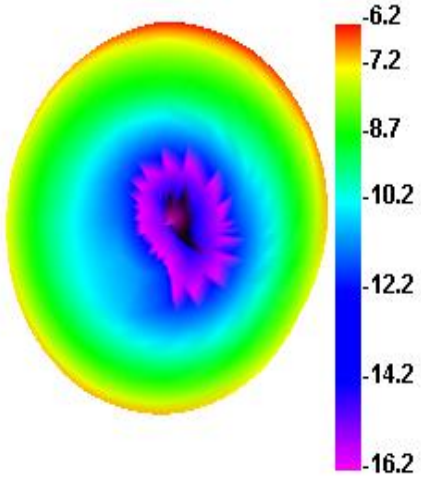

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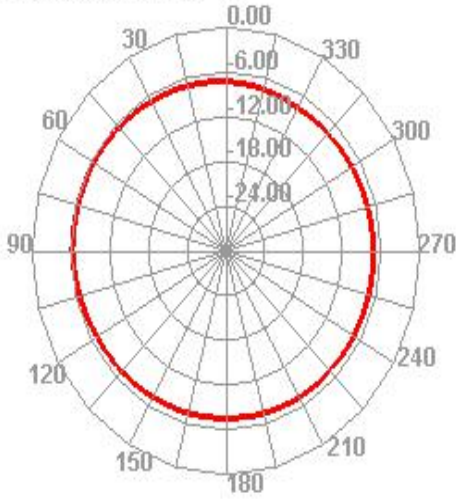

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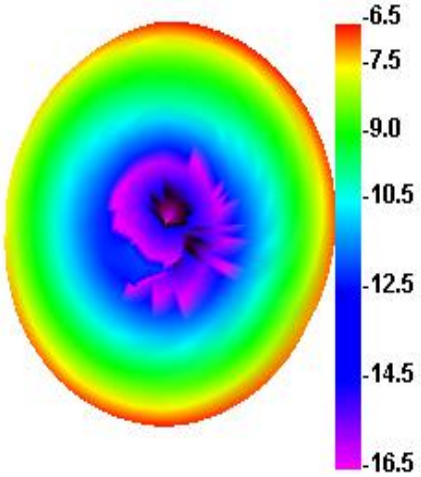

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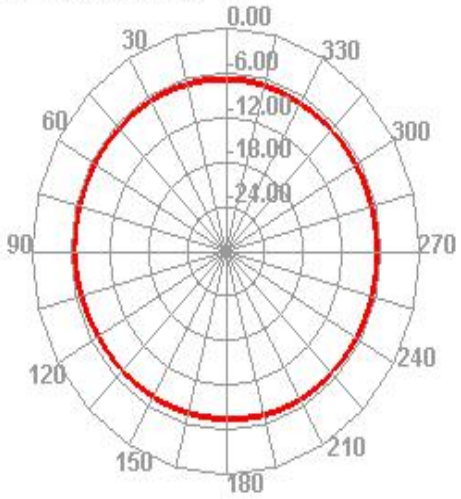

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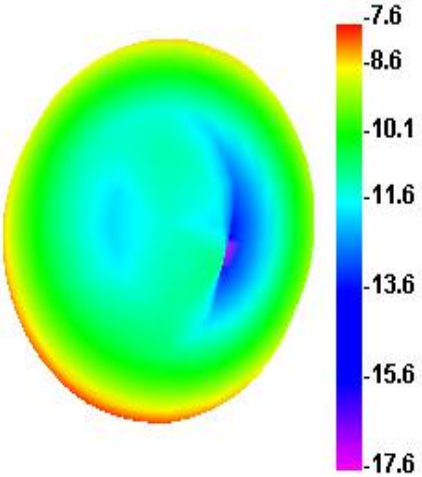

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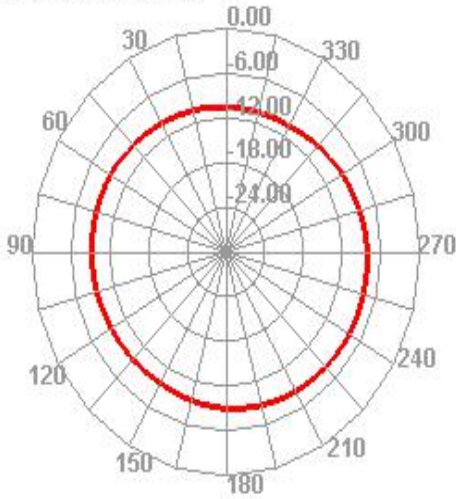

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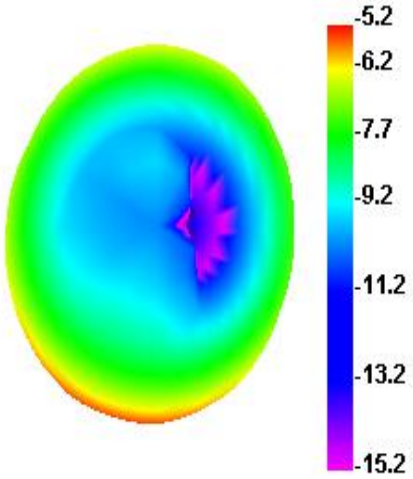

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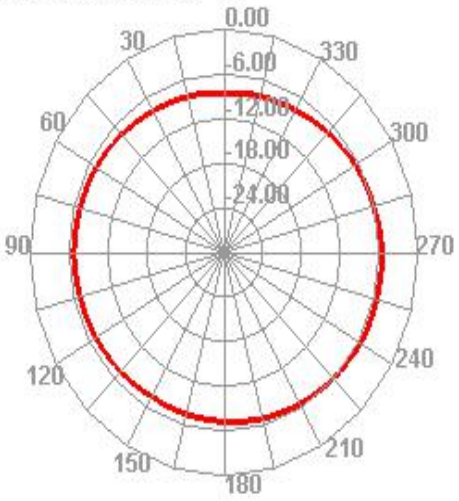

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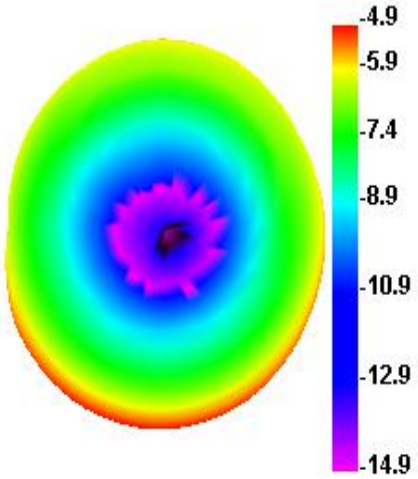

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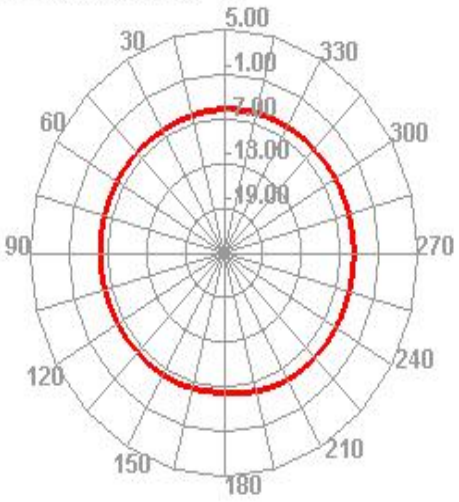

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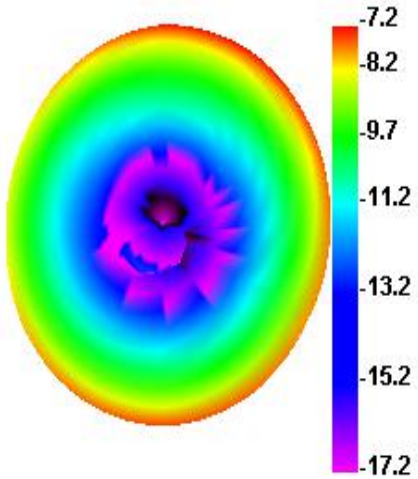

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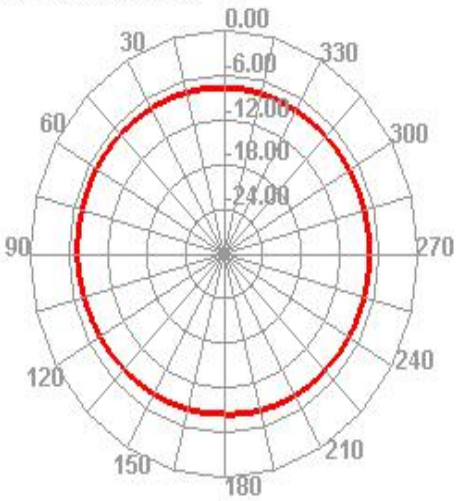

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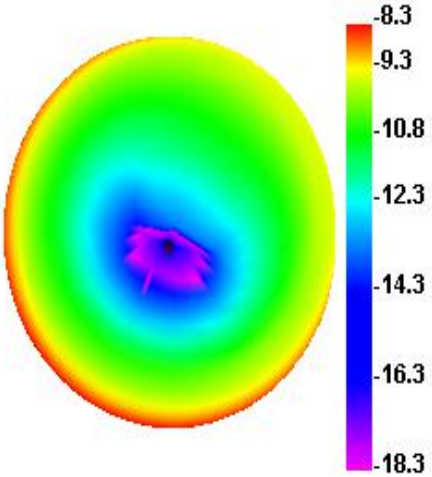

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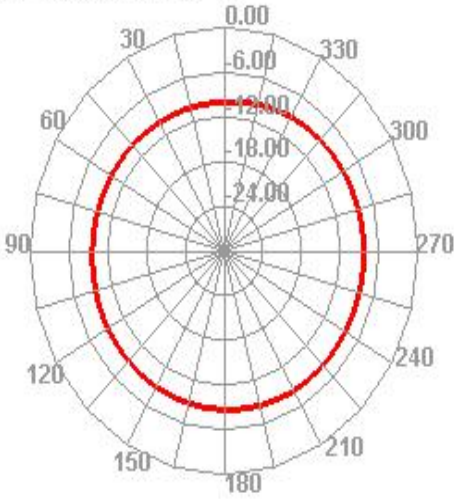

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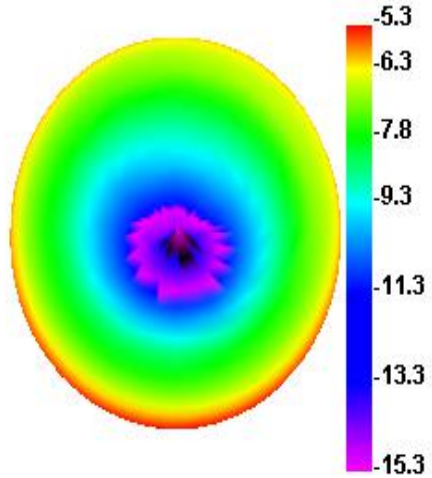

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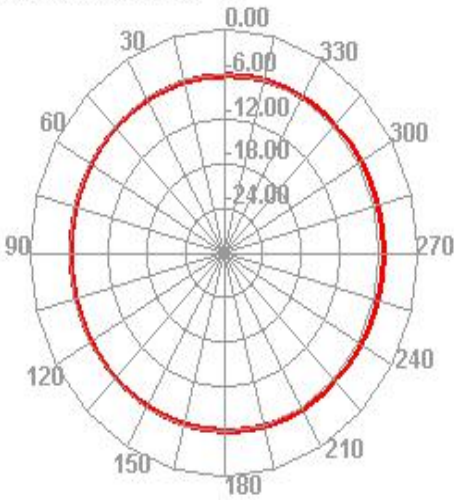

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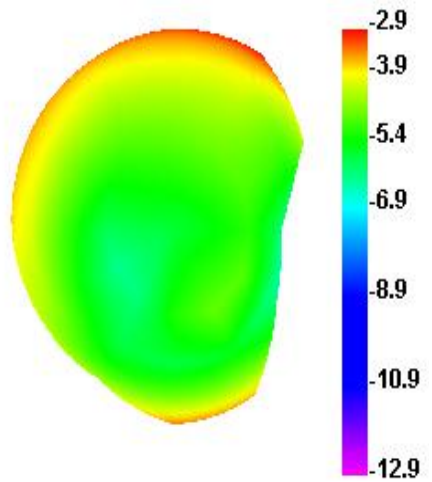

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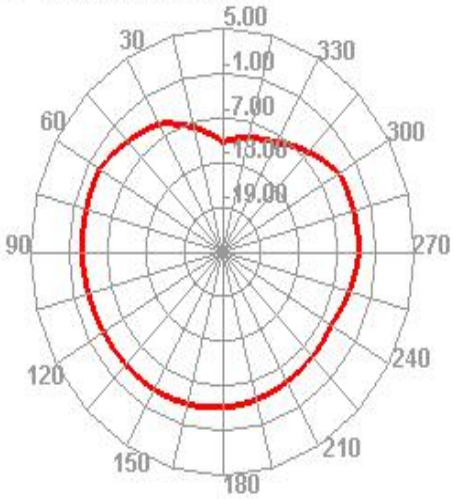

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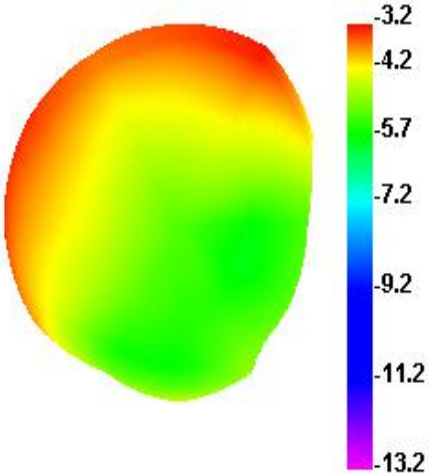

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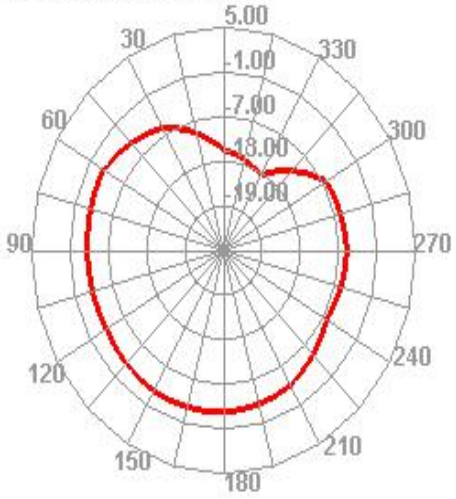

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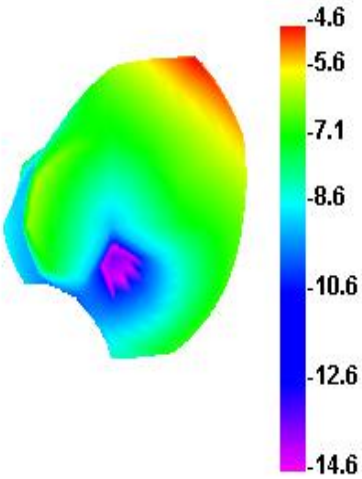

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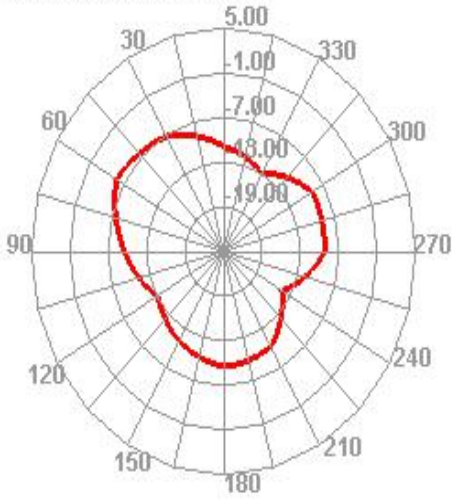
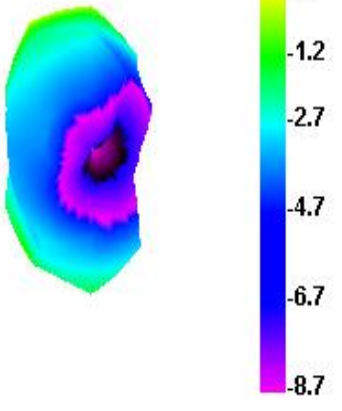


1575.000MHz



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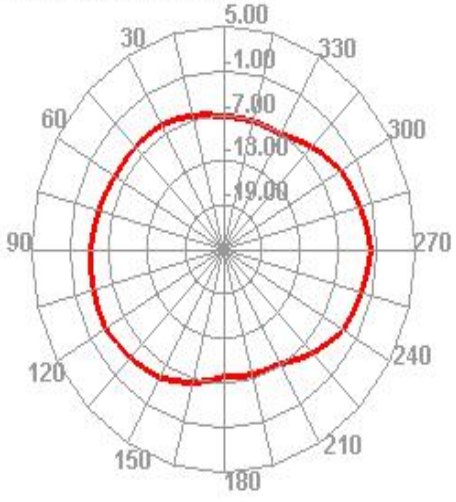
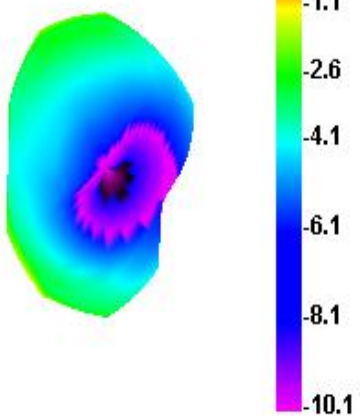


1600.000MHz



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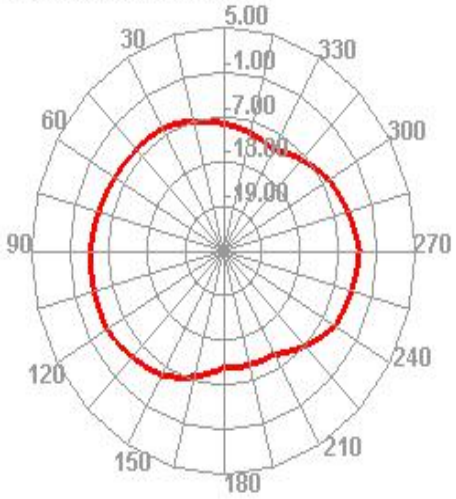
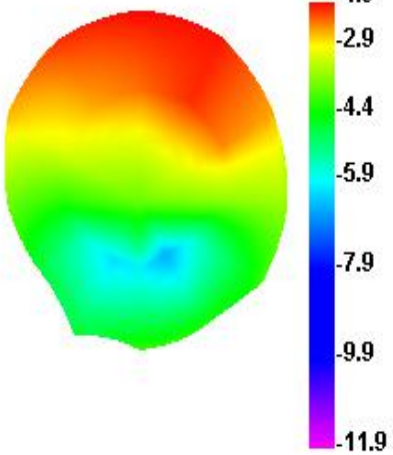


2400.000MHz



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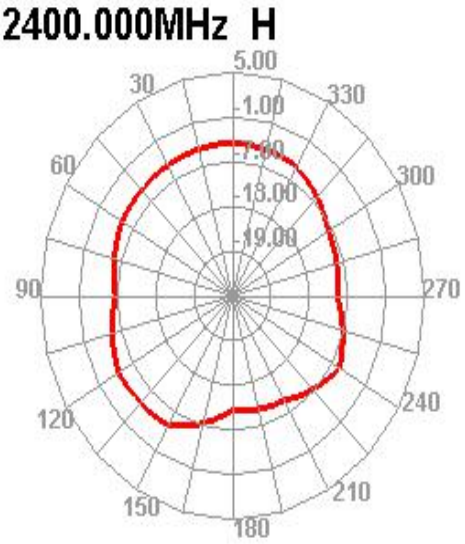
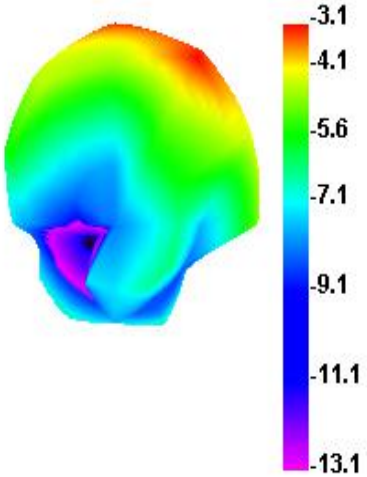


5200.000MHz



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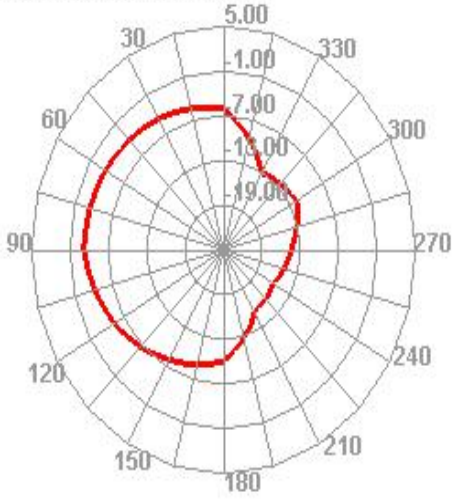

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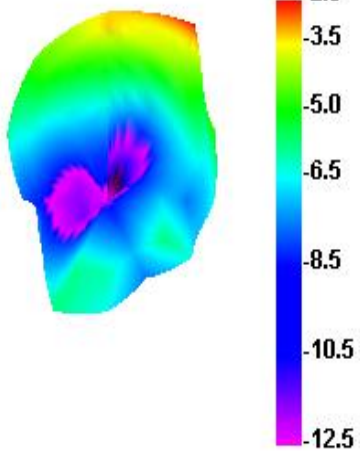

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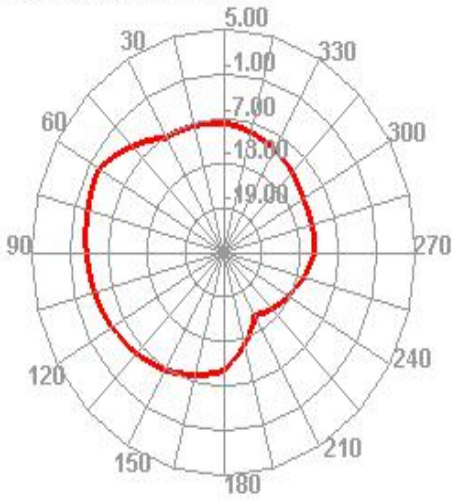

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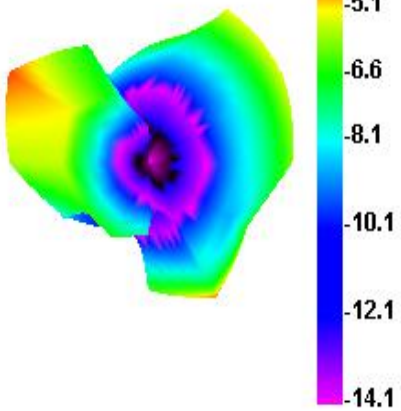

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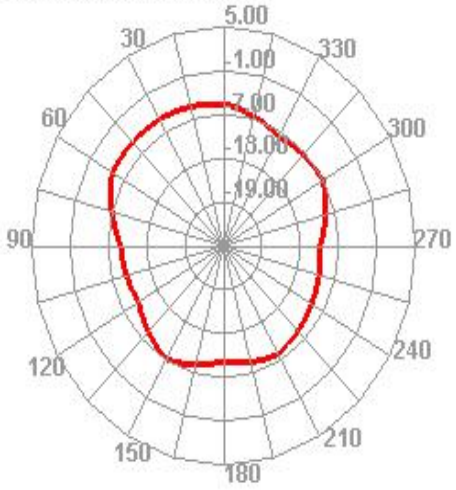

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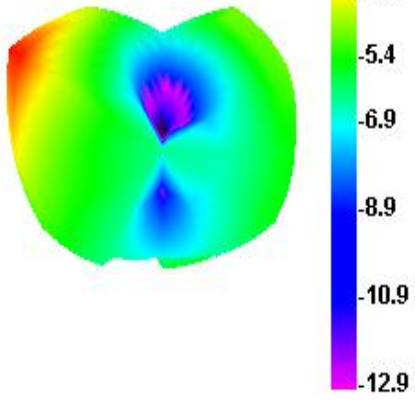

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