

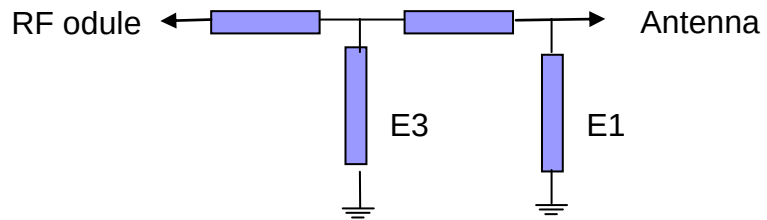
1. Project overview:

Manufacture	Shenzhen DESHIQIN Technology Co., LTD 403, West Building 2, Private Enterprise Science and Technology Park, Xili University Town, Nanshan District, Shenzhen	Name	2300
Complete machine type	Smart phone		
Antenna type and frequency band information		Antenna form	Match Changes
Main Antenna	2G:850/900/1800/1900,3G:B1/B2/B4/B5/B8 CDMA:BCO FDD:B1 B2 B3 B4 B7 B8 B25 B66 B38 B40 B41 B12 B17 B28(A/B) B5 B18 B19 B20 B26 B13	PIFA	no
Sub Antenna	WIFI+GPS+BT+NFC	PIFA	no
AUX Antenna	yes	PIFA	no
Antenna material	FPC		

2. Main test equipment

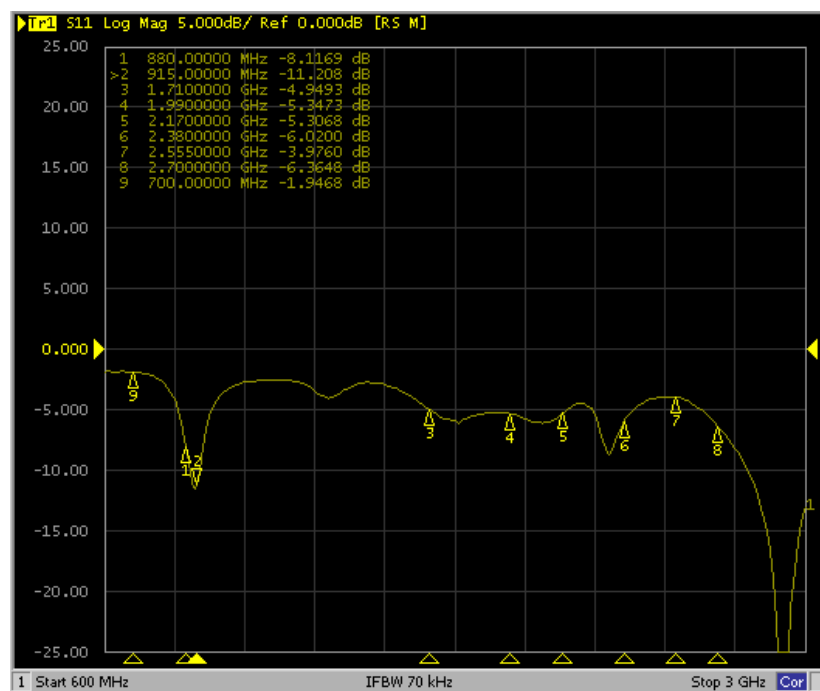
1. ETS Chamber 7×4×3(m)(3D silence room) / 5×3×3(m)(3D silence room), Vector network analyzer (passive tester)
2. Network analyzer-8960/LTE CMW500/8820 Support 2G, 3G and 4G networks (Active tester)

3. Matching Circuit Main Antenna



Element	Match value	
E1(0402)		
E2(0402)		
E3(0402)		
E3(0402)		

4: Passive test of antenna



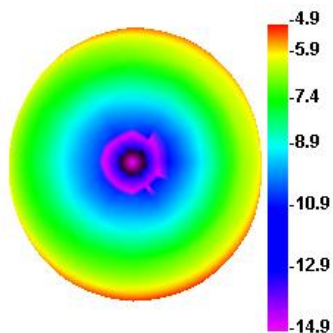
Passive Test For 800-960			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
870	18.77	-7.75	-4.79
880	20.72	-7.28	-4.27
890	21.48	-7.11	-4.05
900	20.66	-7.29	-3.73
910	18.56	-7.81	-3.69
920	15.81	-8.6	-3.97
930	12.2	-9.92	-4.92
940	9.5	-11.25	-6.1
950	7.93	-12.27	-7.27
960	6.72	-13.26	-8.62

Passive Test For 800-960			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
800	18.5	-7.33	-4.69
810	18.49	-7.33	-4.3
820	17.95	-7.46	-3.83
830	17.8	-7.5	-3.47
840	16.24	-7.9	-3.62
850	15.11	-8.21	-3.78
860	12.55	-9.01	-4.69
870	10.26	-9.89	-5.49

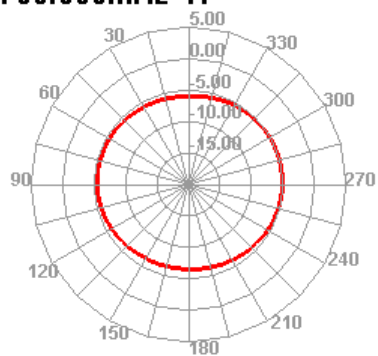
Passive Test For 700-880

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
700	19.64	-7.07	-4.94
718	26.41	-5.78	-3.55
736	30.12	-5.21	-2.24
754	22.6	-6.46	-2.99
772	18.14	-7.41	-3.81
790	16.46	-7.84	-4.46
808	11.71	-9.31	-5.62
826	7.89	-11.03	-6.48
844	6.07	-12.16	-7.31
862	3.75	-14.26	-9.37
880	3.02	-15.2	-10.45

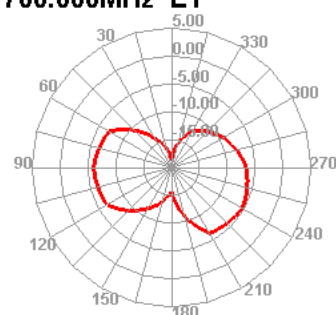
700.000MHz



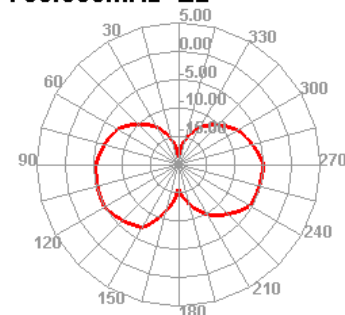
700.000MHz H



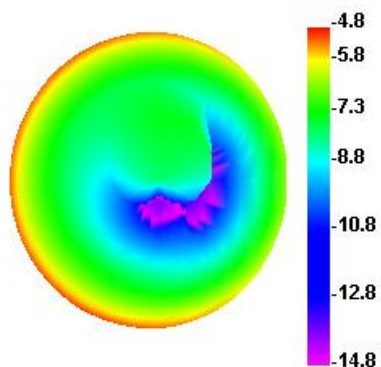
700.000MHz E1



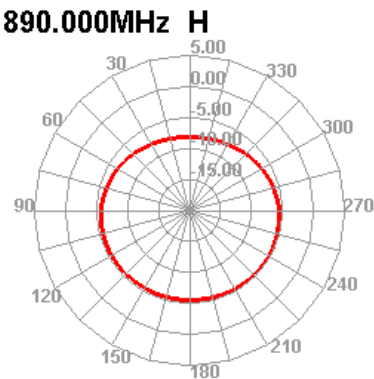
700.000MHz E2



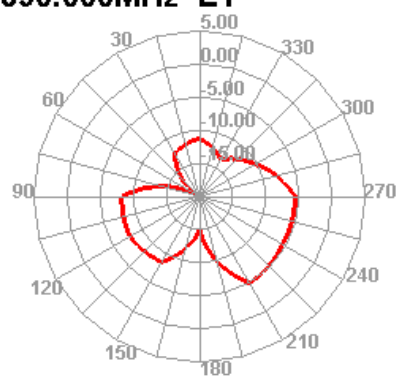
890.000MHz



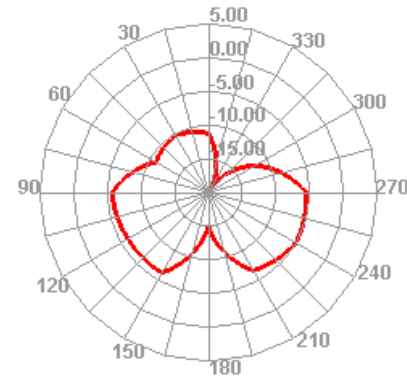
890.000MHz H



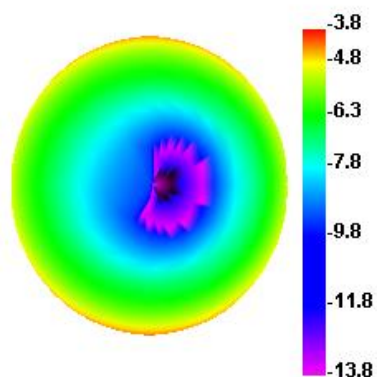
890.000MHz E1



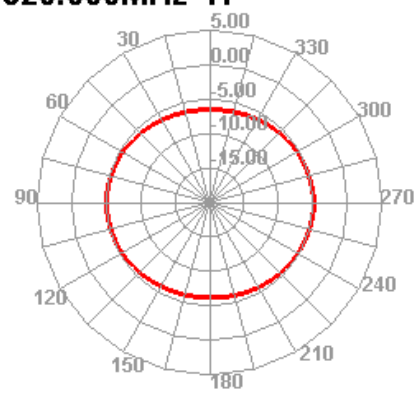
890.000MHz E2



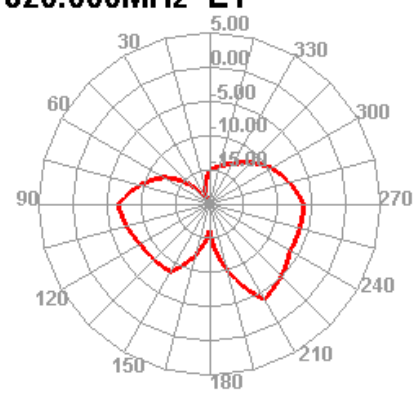
820.000MHz



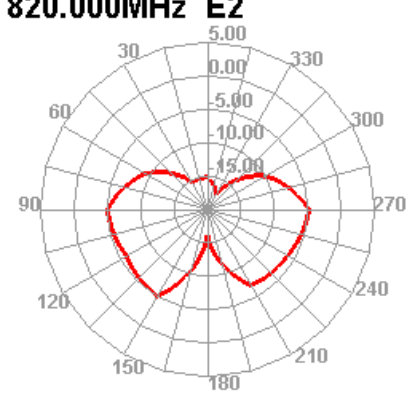
820.000MHz H

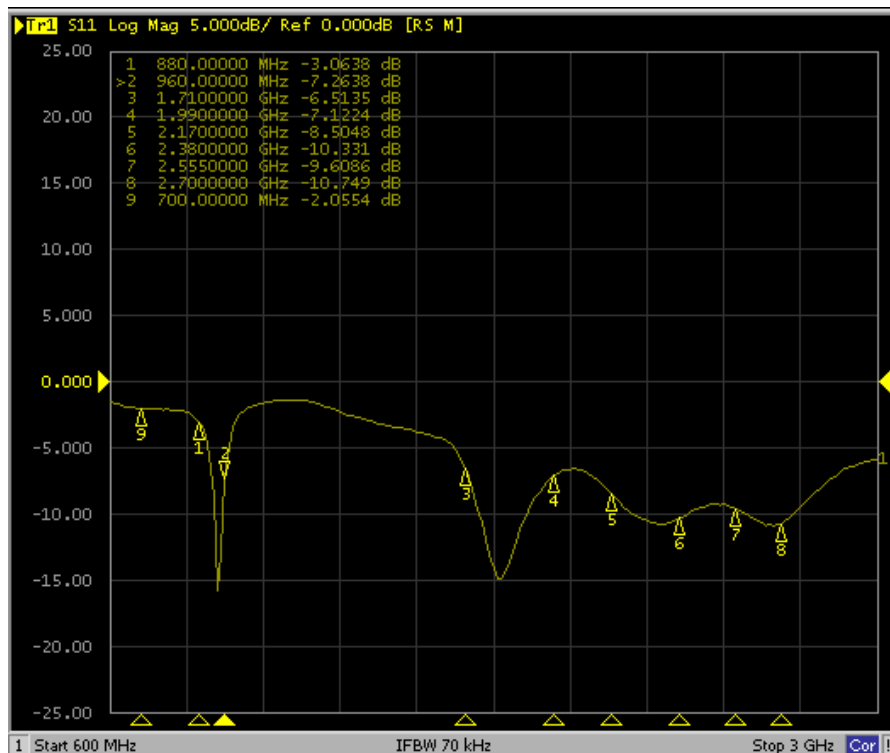


820.000MHz E1



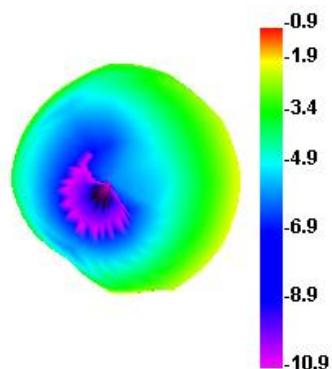
820.000MHz E2



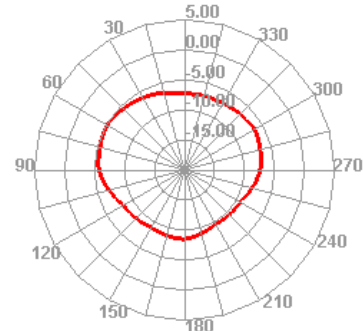


Passive Test For 1700-2700				2370	32.41	-6.5	-0.25
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	2380	36.06	-5.84	0.54
1710	26.85	-5.71	-0.93	2390	33.54	-6.28	0.13
1720	27.11	-5.67	-1.1	2400	34.21	-6.16	0.25
1730	33.38	-4.77	-0.39	2410	33.27	-6.33	0.08
1740	33.09	-4.8	-0.5	2420	34.99	-6.02	0.42
1750	30.12	-5.21	-0.8	2430	36	-5.85	0.66
1760	31.39	-5.03	-0.56	2440	34	-6.2	0.35
1770	31.41	-5.03	-0.46	2450	37.79	-5.56	1.16
1780	37.21	-4.29	0.27	2460	38.39	-5.47	1.29
1790	34.52	-4.62	-0.09	2470	32.36	-4.9	1.96
1800	37.84	-4.22	0.15	2480	33.36	-4.77	2.14
1810	42.88	-3.68	0.38	2490	35.84	-4.46	2.48
1820	45.55	-3.42	0.19	2500	39.68	-4.01	2.96
1830	45.42	-3.43	-0.2	2510	36.78	-4.34	2.75
1840	42.08	-3.76	-0.92	2520	36.52	-4.37	2.7
1850	43.27	-3.64	-0.99	2530	34.27	-4.65	2.54
1860	40.82	-3.89	-1.29	2540	37.56	-4.25	3
1870	35.36	-4.52	-1.82	2550	38.14	-4.19	3.18
1880	35.2	-4.54	-1.69	2560	36.24	-4.41	2.98
1890	35.33	-4.52	-1.58	2570	37.56	-4.25	3.23
1900	37.67	-4.24	-1.21	2580	34.95	-4.57	2.96
1910	38.44	-4.15	-1.2	2590	37.17	-4.3	3.29
1920	39.44	-4.04	-1.04	2600	33.19	-4.79	2.79
1930	45.8	-3.39	-0.3	2610	31.92	-4.96	2.68
1940	43.13	-3.65	-0.39	2620	29.82	-5.25	2.5
1950	42.92	-3.67	-0.16	2630	30.1	-5.21	2.58
1960	38.71	-4.12	-0.46	2640	32.66	-4.86	3
1970	40.24	-3.95	-0.19	2650	29.99	-5.23	2.66
1980	39.75	-4.01	-0.12	2660	32.75	-4.85	3.08
1990	33.41	-4.76	-0.86	2670	32.31	-4.91	3.04
2000	35.59	-4.49	-0.6	2680	33.91	-4.7	3.29
2010	36.45	-4.38	-0.59	2690	33.16	-4.79	3.19
				2700	30	-5.23	2.87

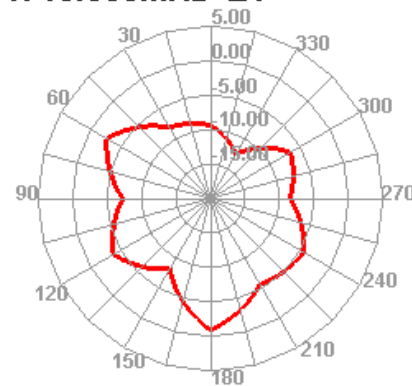
1710.000MHz



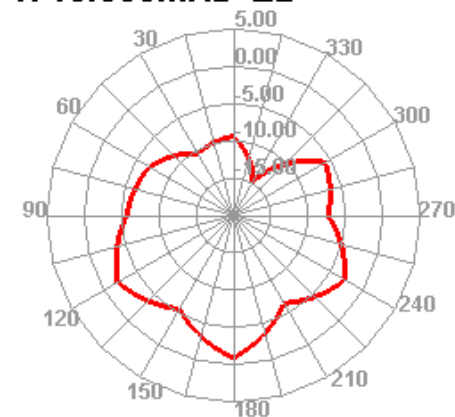
1710.000MHz H



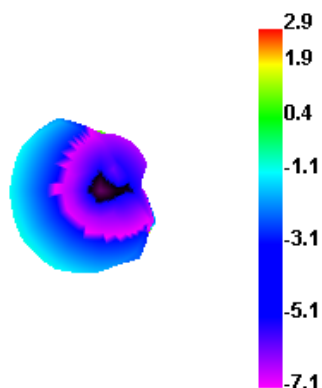
1710.000MHz E1



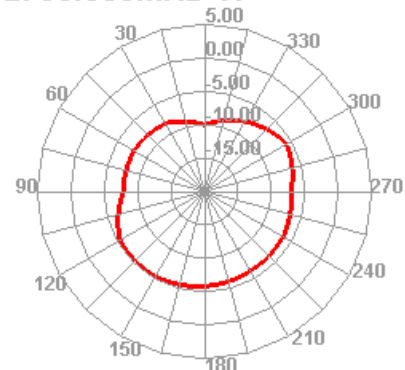
1710.000MHz E2



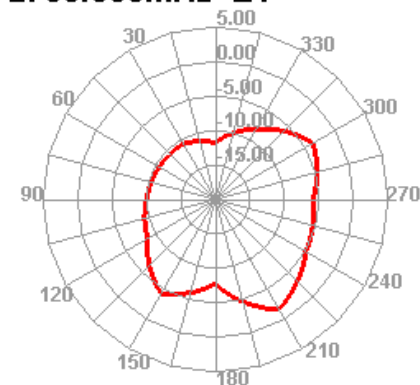
2700.000MHz



2700.000MHz H

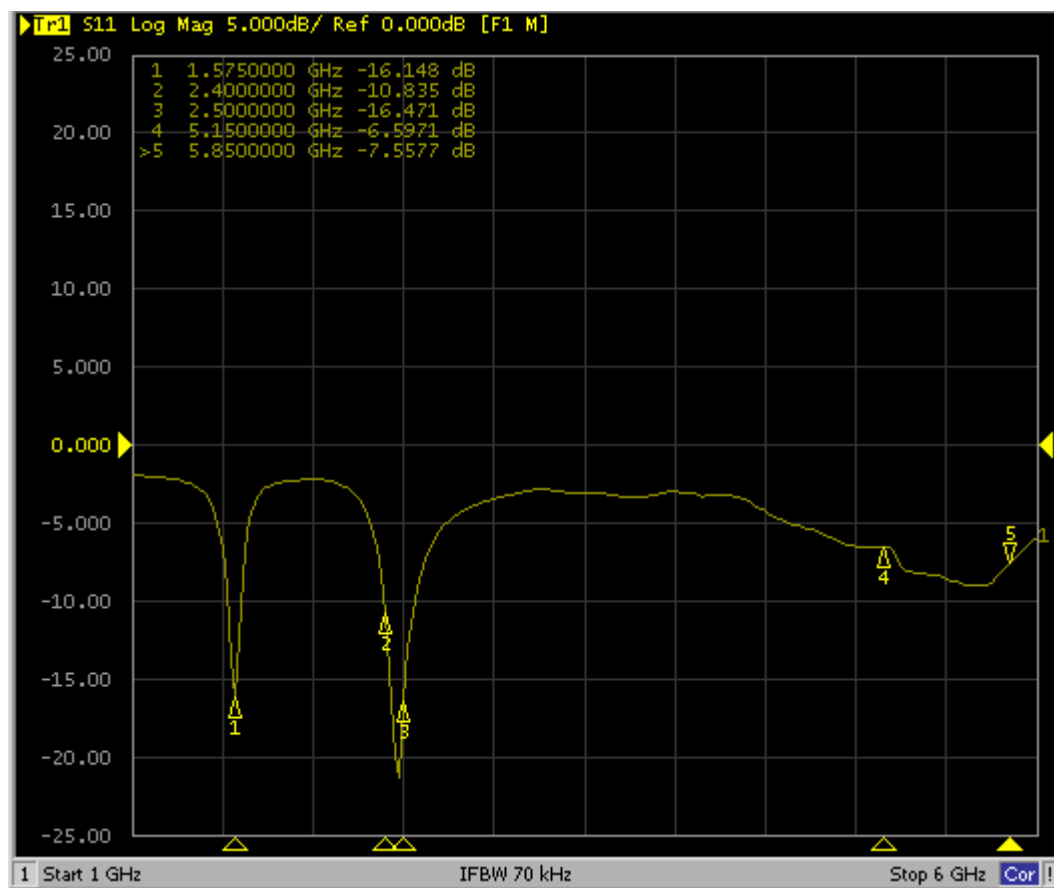


2700.000MHz E1



2700.000MHz E2

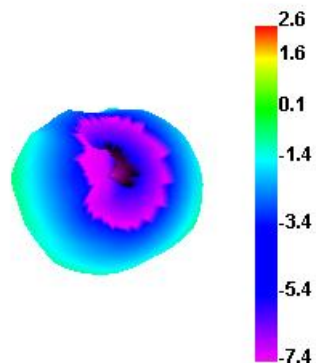




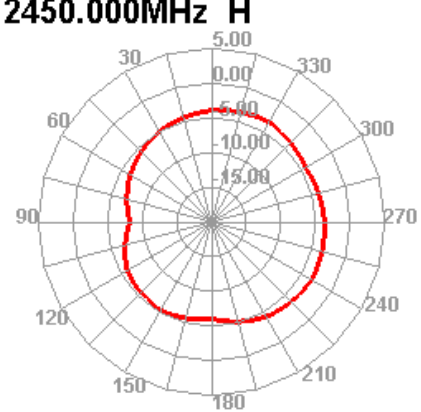
Passive Test For 2400-2500			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	30.32	-5.18	1.72
2410	28.99	-5.38	1.58
2420	30.93	-5.1	1.74
2430	31.88	-4.96	2.05
2440	33.34	-4.77	2.08
2450	35.99	-4.44	2.56
2460	36.71	-4.35	2.6
2470	39.65	-4.02	3.08
2480	36.54	-3.82	3.23
2490	32.98	-3.67	3.47
2500	35.99	-3.37	3.63

Passive Test For GPS				Passive Test For WIFI5.8			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1550	31.75	-6.63	-1.05	5150	29.81	-10.08	-6.39
1555	31.71	-6.63	-1.06	5200	26.88	-9.63	-4.71
1560	31.08	-6.76	-1.23	5250	26.18	-7.91	-2.77
1565	30.94	-6.79	-1.19	5300	30.21	-6.95	-1.98
1570	31.04	-6.77	-1.17	5350	28.62	-5.43	-0.37
1575	30.75	-6.83	-1.23	5400	33.8	-4.71	0.06
1580	30.62	-6.86	-1.19	5450	31.45	-5.02	-0.01
1585	30.87	-6.8	-1.08	5500	30.85	-5.11	-0.1
1590	30.72	-6.84	-1.11	5550	30.87	-5.11	-0.12
1595	30.68	-6.85	-1.1	5600	32.74	-4.85	0.04
1600	31.51	-6.67	-0.87	5650	32.76	-4.85	0.23
				5700	30.15	-5.21	0.16
				5750	29.23	-5.34	-0.12
				5800	33.94	-6.21	-0.3
				5850	35.72	-5.9	0.1

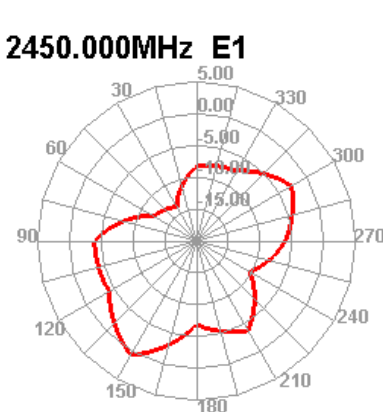
2450.000MHz



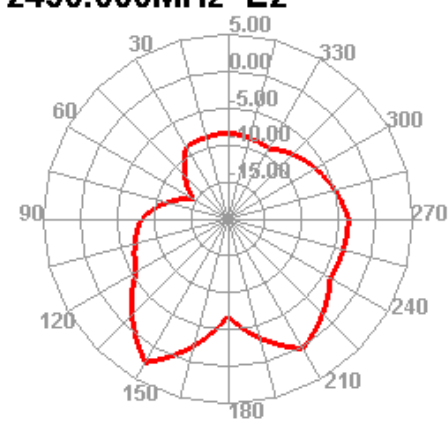
2450.000MHz H



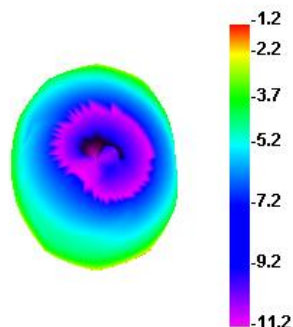
2450.000MHz E1



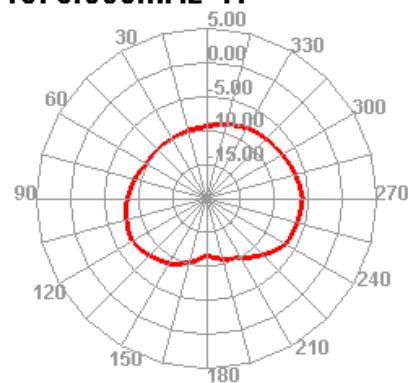
2450.000MHz E2



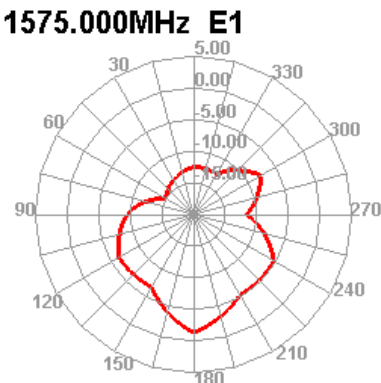
1575.000MHz



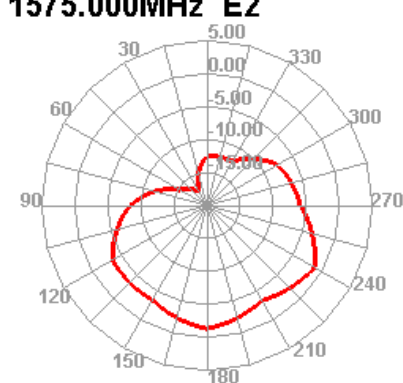
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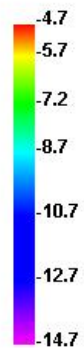
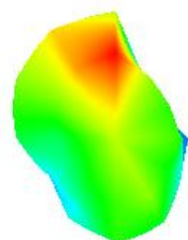
1575.000MHz E1



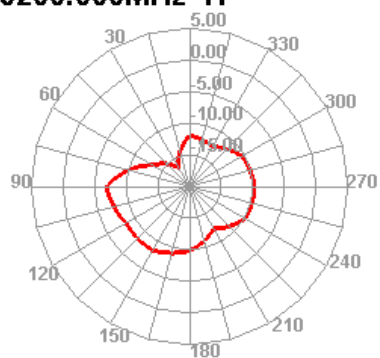
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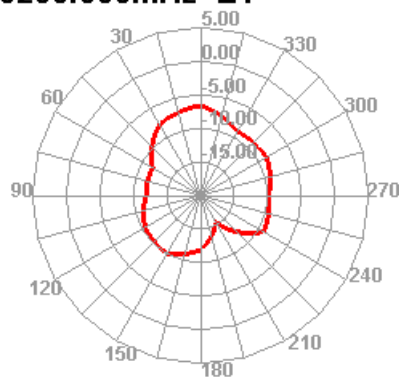
5200.000MHz



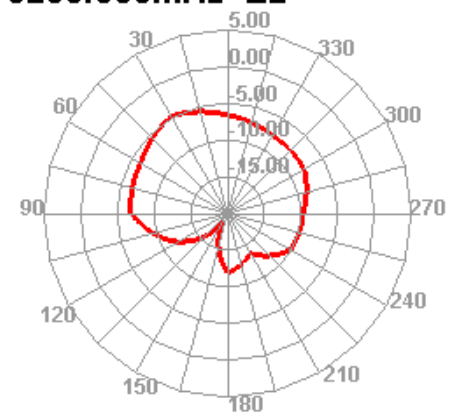
5200.000MHz H



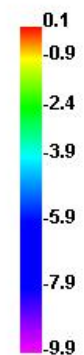
5200.000MHz E1



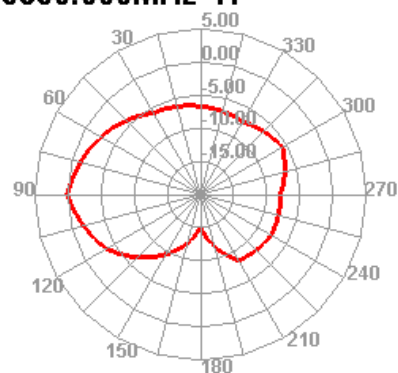
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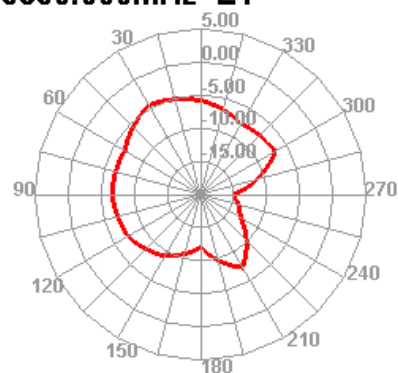
5850.000MHz



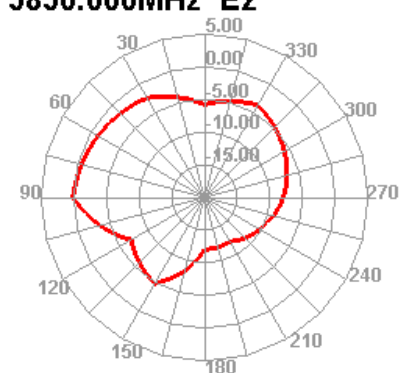
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



Antenna:

