

M200 WIFI&BT&GPS

Antenna Test Report

1.TEST INSTRUMENTATION

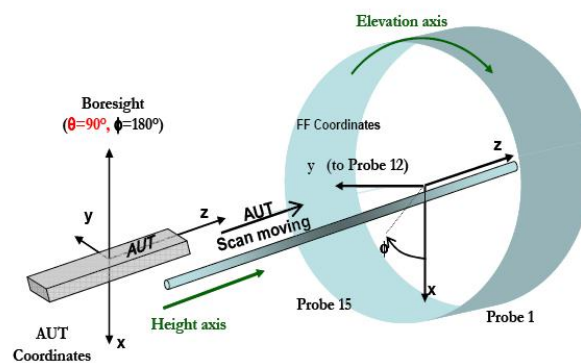
CHAMBER	SATIMO Chamber
Wireless Networking Test Set	General Test Rzi 1800
NETWORK ANALYZER	Agilent 5072AD
COMPREHENSIVE TESTER	R&S CMW500
TEMPERATURE	25±2℃
HUMIDITY	50±20%rh



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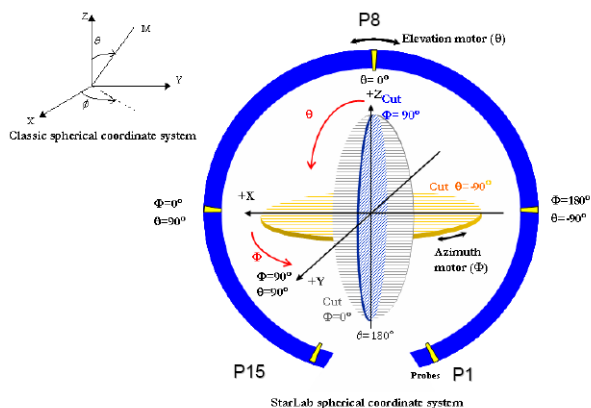


Coordinate system – Cylindrical geometry



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Coordinate system – Spherical geometry



2. ANTENNA TRP &TIS

TRP: total radiated power &TIS: total isotropic sensitivity

1	2412	12.67	1	2412	-79.98
7	2442	12.85	7	2442	-79.39
13	2472	13.09	13	2472	-80.55
64	5320	11.69	64	5320	-66.7
149	5745	11.22	149	5745	-65.59
165	5825	10.26	165	5825	-64.07
GPS					
tis	0	1575.4	-150.15		
CN 值	0	1575.4	43.09		

M200_3in1_ANTENNA S11

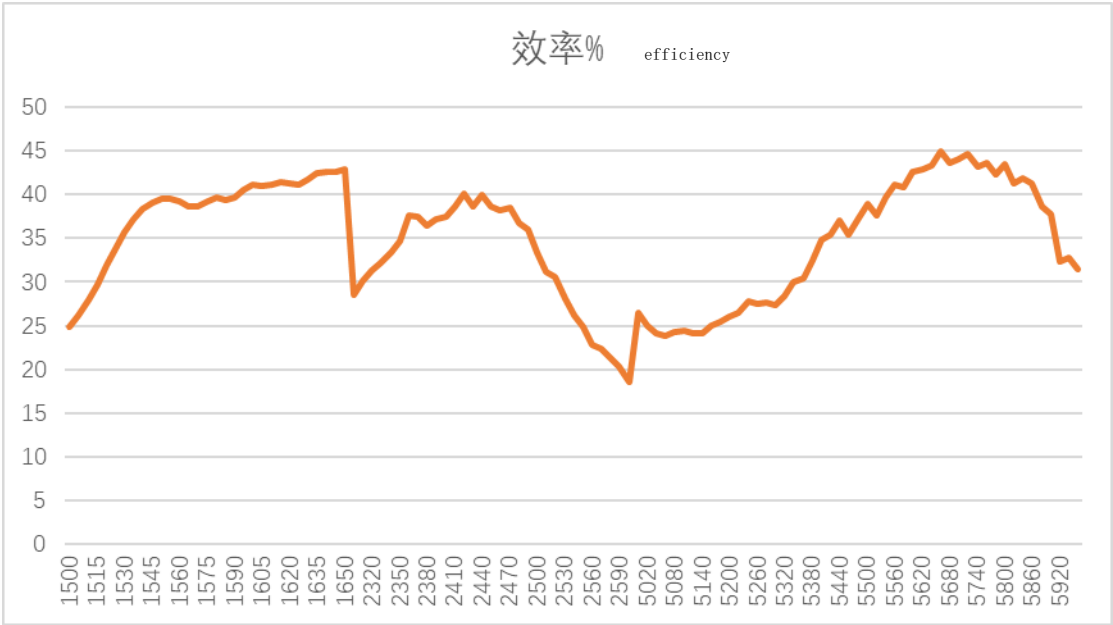


Efficiency test results

frequency MHz	效率 efficiency db	增益 Gain dbi	效率 efficiency %	frequency MHz	效率 efficiency db	增益 Gain dbi	效率 efficiency %	frequency MHz	效率 efficiency db	增益 Gain dbi	效率 efficiency %
1500	-6.04	-1.76	24.88	2360	-4.24	0.18	37.67	5240	-5.57	-0.61	27.74
1505	-5.82	-1.61	26.21	2370	-4.26	0.41	37.46	5260	-5.61	-0.6	27.5
1510	-5.54	-1.42	27.9	2380	-4.38	0.33	36.51	5280	-5.59	-0.56	27.58
1515	-5.27	-1.05	29.7	2390	-4.29	0.5	37.24	5300	-5.63	-0.51	27.33
1520	-4.96	-0.66	31.93	2400	-4.26	0.61	37.48	5320	-5.47	-0.26	28.39
1525	-4.71	-0.54	33.82	2410	-4.12	0.76	38.68	5340	-5.22	0.09	30.05
1530	-4.48	-0.44	35.66	2420	-3.96	0.82	40.19	5360	-5.18	0.24	30.36
1535	-4.29	-0.24	37.21	2430	-4.12	0.69	38.71	5380	-4.87	0.64	32.55
1540	-4.16	-0.08	38.37	2440	-3.98	0.68	40.03	5400	-4.59	0.98	34.78
1545	-4.09	0.11	39.03	2450	-4.12	0.46	38.69	5420	-4.51	1.08	35.41
1550	-4.02	0.33	39.58	2460	-4.18	0.42	38.16	5440	-4.31	1.34	37.09
1555	-4.02	0.42	39.6	2470	-4.14	0.47	38.57	5460	-4.51	1.18	35.42
1560	-4.07	0.39	39.22	2480	-4.35	0.28	36.71	5480	-4.28	1.43	37.31
1565	-4.12	0.41	38.69	2490	-4.44	0.16	35.96	5500	-4.09	1.63	39.01
1570	-4.13	0.57	38.64	2500	-4.77	-0.19	33.37	5520	-4.25	1.52	37.61
1575	-4.06	0.75	39.31	2510	-5.06	-0.42	31.19	5540	-4.01	1.75	39.75

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1580	-4.01	0.78	39.71	2520	-5.14	-0.46	30.59	5560	-3.86	1.84	41.15
1585	-4.04	0.74	39.45	2530	-5.52	-0.7	28.05	5580	-3.89	1.77	40.85
1590	-4.01	0.81	39.73	2540	-5.81	-0.79	26.22	5600	-3.7	2.09	42.67
1595	-3.91	0.96	40.62	2550	-6.05	-0.97	24.82	5620	-3.68	2.21	42.9
1600	-3.86	1.04	41.11	2560	-6.41	-1.28	22.87	5640	-3.62	2.38	43.4
1605	-3.87	1.01	41.04	2570	-6.52	-1.23	22.29	5660	-3.47	2.67	45
1610	-3.85	1	41.19	2580	-6.7	-1.41	21.37	5680	-3.6	2.6	43.67
1615	-3.83	1.05	41.42	2590	-6.92	-1.66	20.35	5700	-3.56	2.73	44.08
1620	-3.85	1.08	41.23	2600	-7.3	-1.9	18.6	5720	-3.51	2.87	44.61
1625	-3.86	1.07	41.12	5000	-5.78	-2.29	26.43	5740	-3.65	2.88	43.14
1630	-3.8	1.1	41.67	5020	-6.02	-2.5	24.99	5760	-3.61	3.11	43.58
1635	-3.73	1.2	42.4	5040	-6.18	-2.55	24.08	5780	-3.73	3.11	42.37
1640	-3.71	1.27	42.56	5060	-6.24	-2.41	23.77	5800	-3.62	3.4	43.46
1645	-3.7	1.25	42.62	5080	-6.14	-2.13	24.31	5820	-3.85	3.23	41.22
1650	-3.68	1.21	42.89	5100	-6.12	-2.01	24.44	5840	-3.78	3.38	41.87
2300	-5.45	-1.81	28.5	5120	-6.18	-1.91	24.08	5860	-3.85	3.46	41.22
2310	-5.21	-1.53	30.1	5140	-6.16	-1.75	24.19	5880	-4.12	3.22	38.68
2320	-5.05	-1.16	31.24	5160	-6.02	-1.43	25.02	5900	-4.22	3.12	37.83
2330	-4.92	-0.96	32.2	5180	-5.94	-1.19	25.46	5920	-4.9	2.51	32.37
2340	-4.77	-0.58	33.32	5200	-5.83	-0.99	26.09	5940	-4.85	2.55	32.75
2350	-4.59	-0.28	34.73	5220	-5.77	-0.86	26.47	5960	-5.02	2.37	31.45



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天线形式及环境 Antenna form and environment



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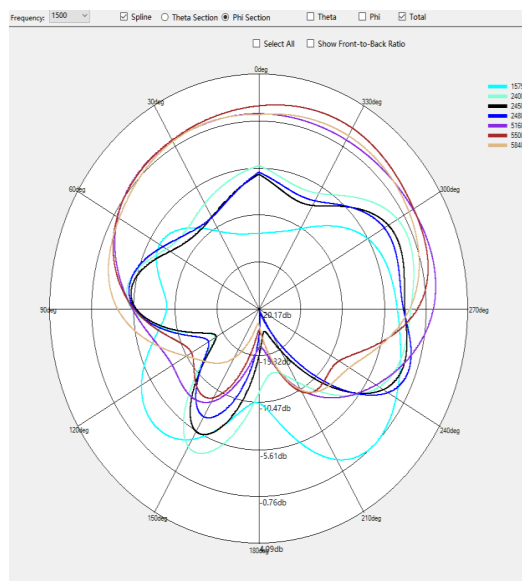


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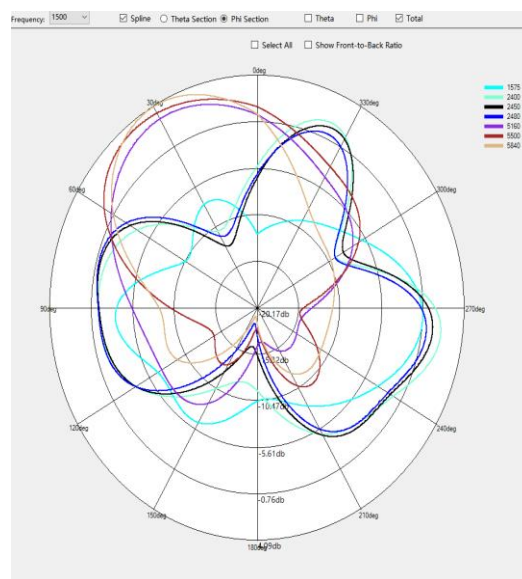
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1D view:

Phi = 90

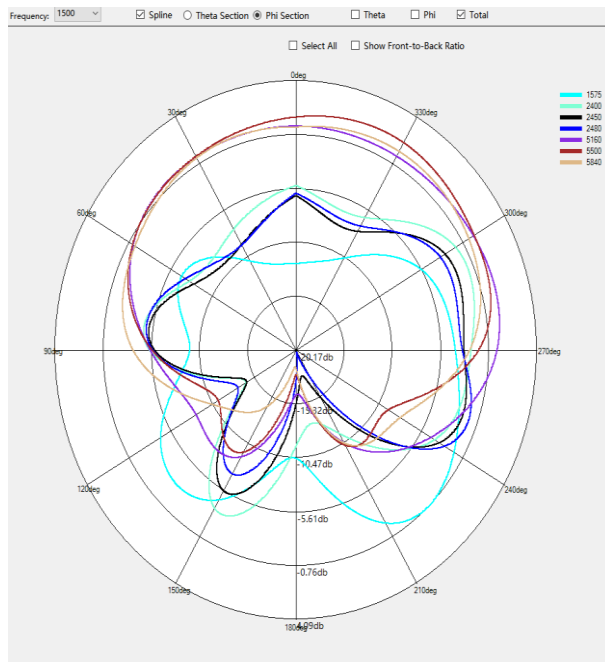


Phi= 0

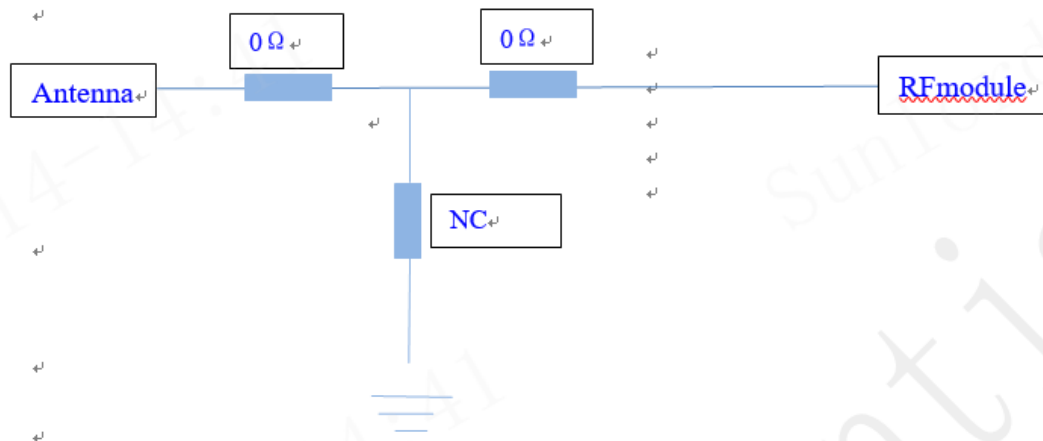


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theta = 90



射频链路 Rf link



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