



Antenna Performance Description

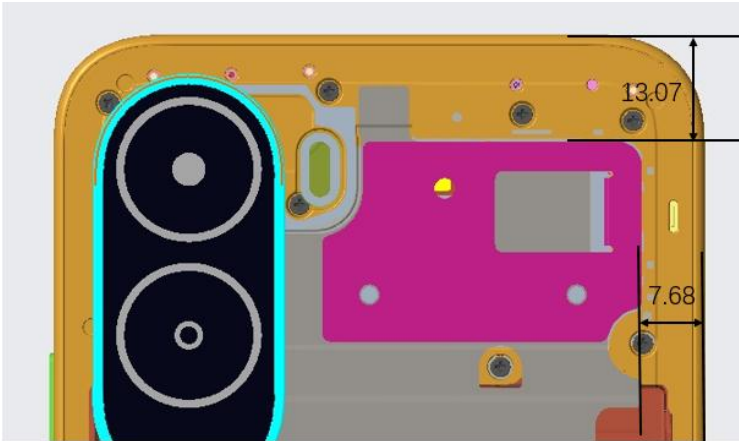
Applicant: Xiaomi Communications Co., Ltd

Antenna Model: P25A Antenna

Test date: 2025/11/20

1.Antenna information

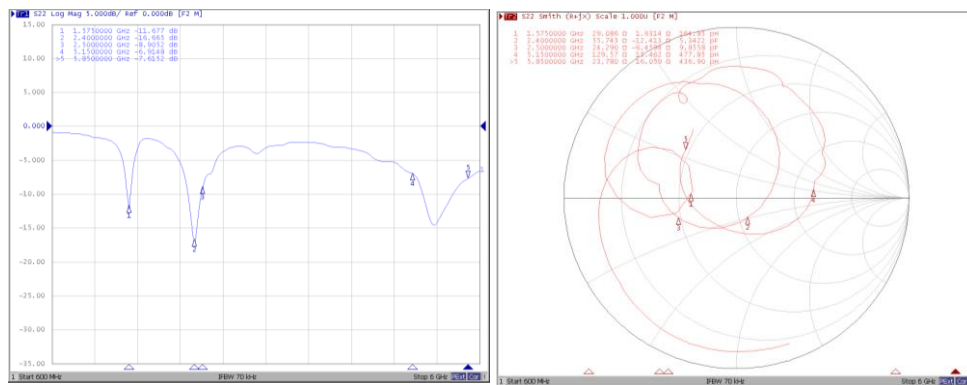
Antenna	Pattern	Antenna Type	Manufacturer	Address	Test party of
ANT 1	FPC	PIFA Antenna	Xiaomi Communications Co., Ltd.	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085	Speed
ANT 4	FPC	PIFA Antenna	Xiaomi Communications Co., Ltd.	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085	Speed
ANT 6	FPC	PIFA Antenna	Xiaomi Communications Co., Ltd.	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085	Speed



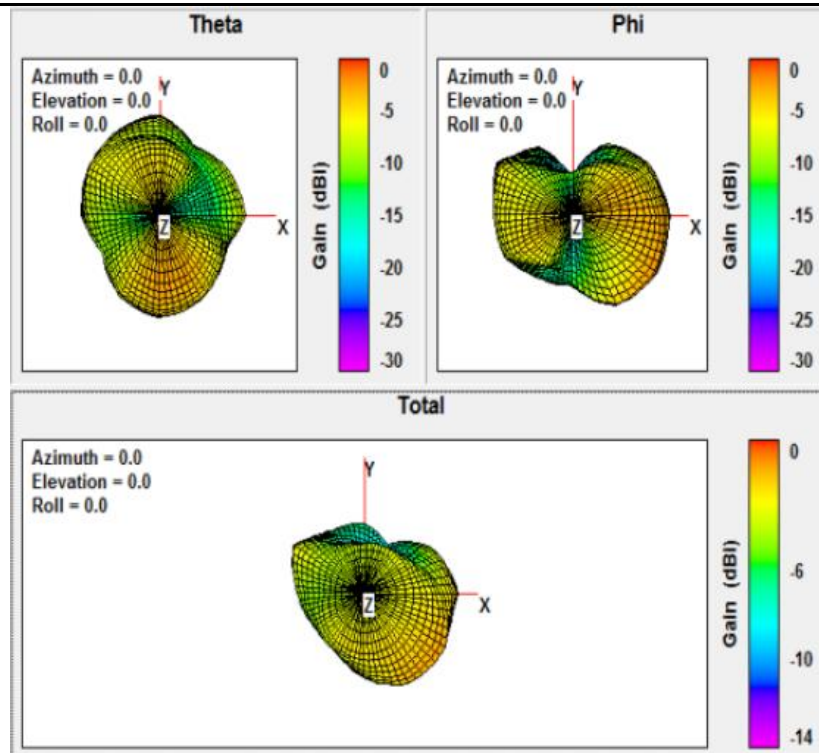
Test data

Band for Antenna 6	Combo ant	
	Effi.(dBi)	Peak gain(dBi)
2.4G	-4.4	-0.5
5G (5.15-5.25GHz)	-5.5	0.2
5G (5.25-5.35GHz)	-4.7	0.1
5G (5.47-5.725GHz)	-4.1	0.1
5G (5.725-5.85GHz)	-4.2	0.1
Bluetooth	-4.4	-0.5

S11:

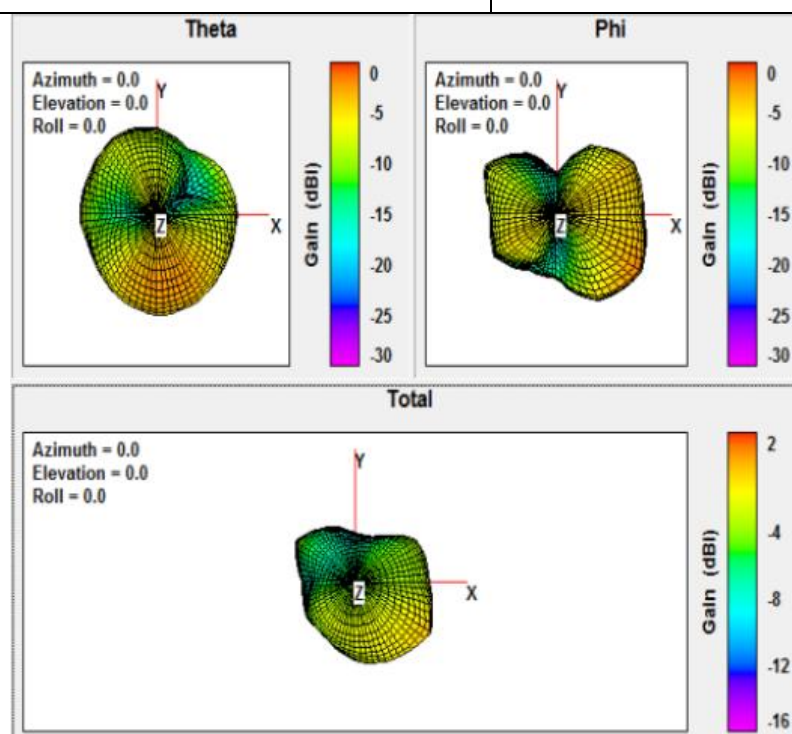


3D:



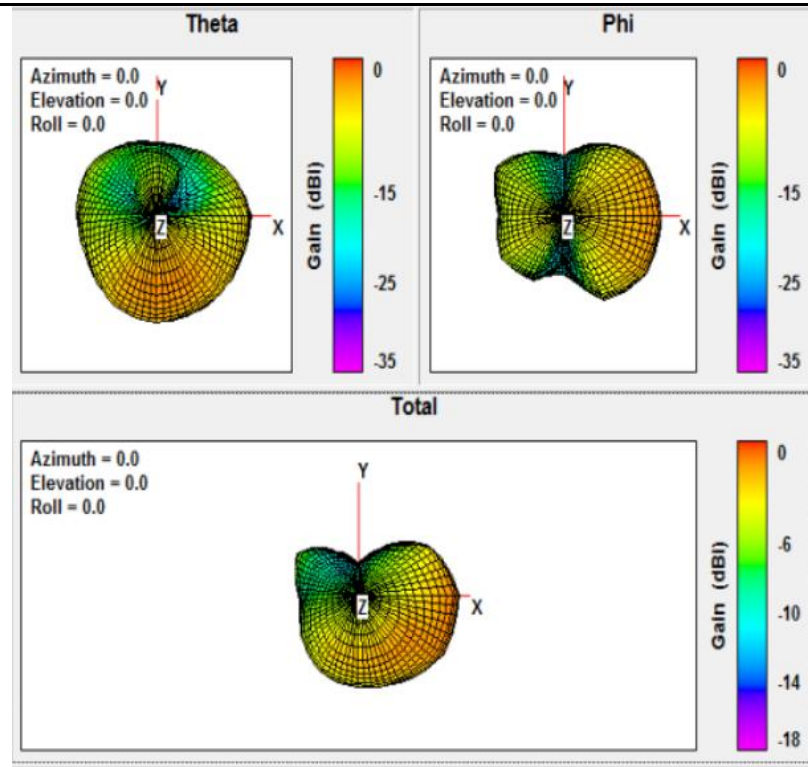
Frequency

5470MHz



Frequency

5730MHz



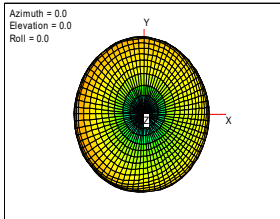
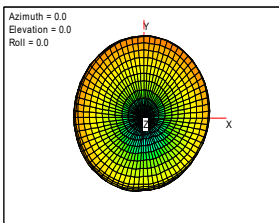
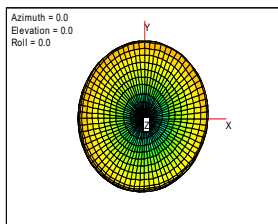
2. Main Test Instruments

Name	Manufacturer	Model name	Serial Number	Software	Cal., Date	Exp., Date
P9371A	KEYSIGHT	P9371A	MY57212591	Network Analyzer	2025-4-1	2026-4-1

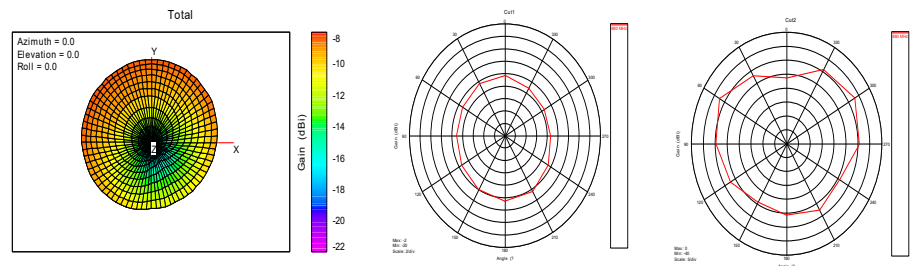
3. Test Site Shanghai



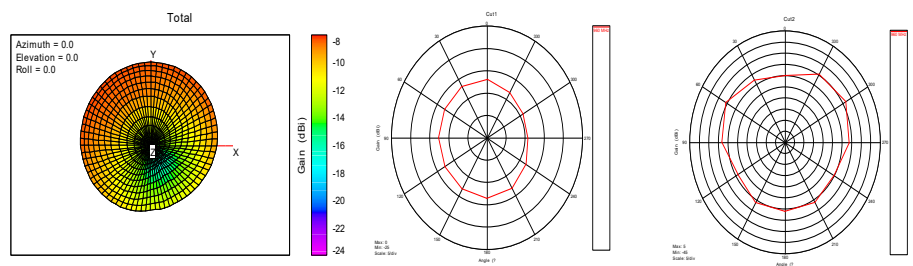


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6.6 Radiation Pattern-ANT1							
Main ant							
700MHz		Total Azimuth = 0.0 Elevation = 0.0 Roll = 0.0  Gain (dBi) -6 -8 -10 -12 -14 -16 -18 -20 -22 Gain (dBi) -6 -8 -10 -12 -14 -16 -18 -20 -22 Gain (dBi) -6 -8 -10 -12 -14 -16 -18 -20 -22					
780MHz		Total Azimuth = 0.0 Elevation = 0.0 Roll = 0.0  Gain (dBi) -6 -12 -16 -20 -24 Gain (dBi) -6 -12 -16 -20 -24 Gain (dBi) -6 -12 -16 -20 -24					
800MHz		Total Azimuth = 0.0 Elevation = 0.0 Roll = 0.0  Gain (dBi) -6 -12 -16 -20 -24 Gain (dBi) -6 -12 -16 -20 -24 Gain (dBi) -6 -12 -16 -20 -24					

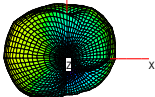
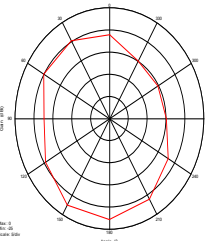
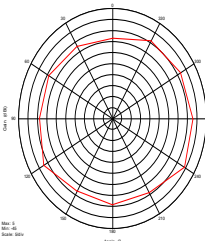
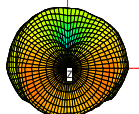
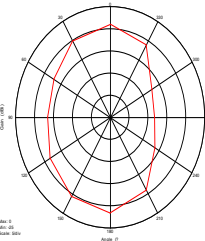
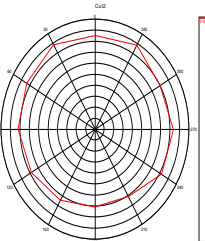
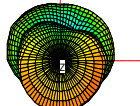
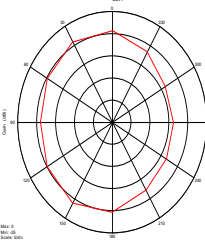
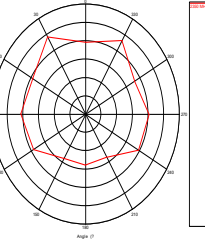
880MHz

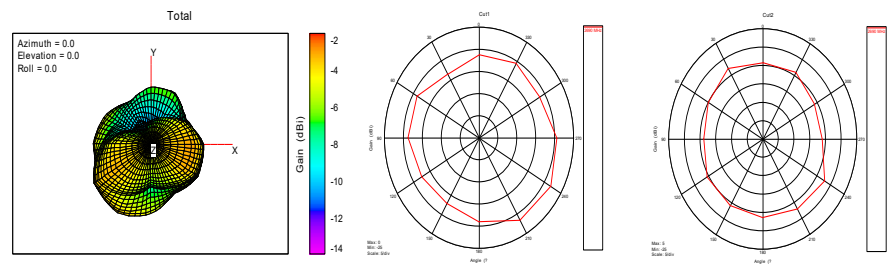


960MHz

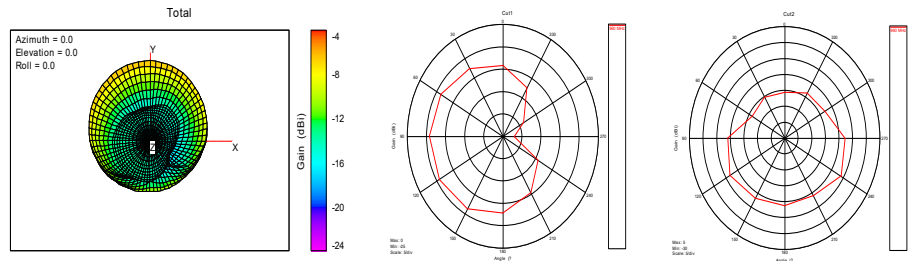




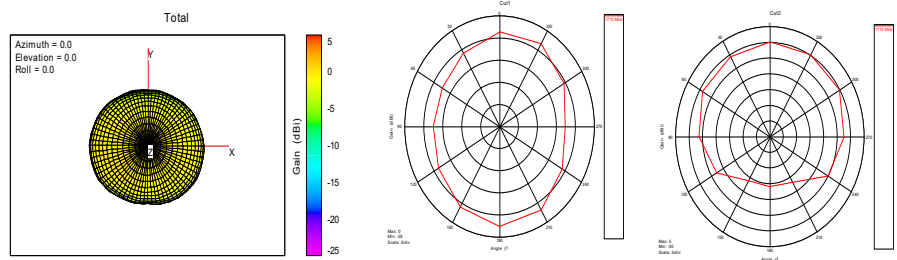
		Product Specification		P/N		
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6.6 Radiation Pattern-ANT1						
Main ant						
1710MHz		Total Azimuth = 0.0 Elevation = 0.0 Roll = 0.0  Gain (dBi) 0 -2 -4 -6 -8 -10 -12 -14 Cut1  Gain (dBi) 0 -2 -4 -6 -8 -10 -12 -14 Cut2  Gain (dBi) 0 -2 -4 -6 -8 -10 -12 -14				
2160MHz		Total Azimuth = 0.0 Elevation = 0.0 Roll = 0.0  Gain (dBi) 0 -4 -8 -12 -16 -20 Cut1  Gain (dBi) 0 -4 -8 -12 -16 -20 Cut2  Gain (dBi) 0 -4 -8 -12 -16 -20				
2350MHz		Total Azimuth = 0.0 Elevation = 0.0 Roll = 0.0  Gain (dBi) 0 -2 -4 -6 -8 -10 -12 -14 -16 Cut1  Gain (dBi) 0 -2 -4 -6 -8 -10 -12 -14 -16 Cut2  Gain (dBi) 0 -2 -4 -6 -8 -10 -12 -14 -16				



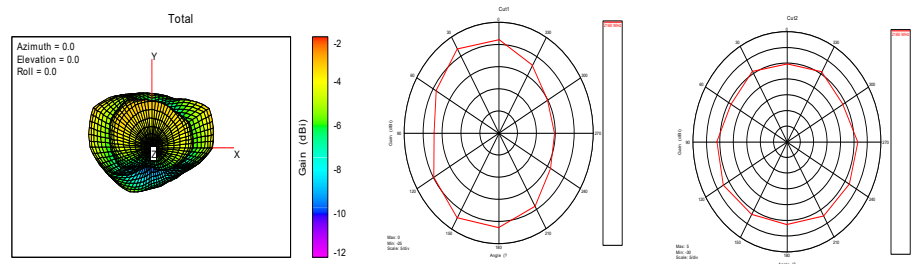
960MHz



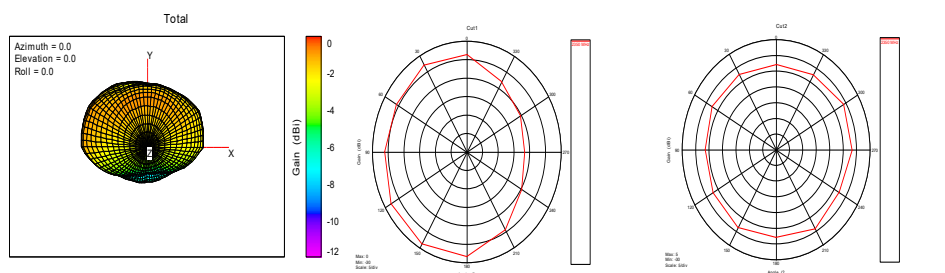
1710MHz



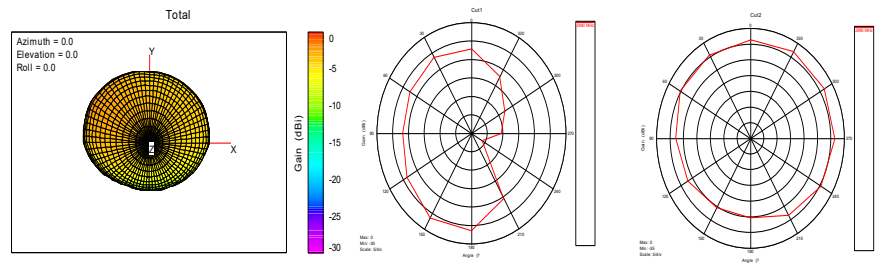
2190MHz



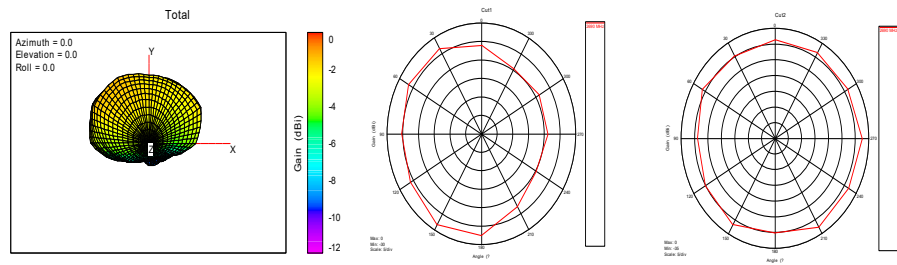
2340MHz



2490MHz



2690MHz





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6.7 Efficiency-ANT1									
频率	效率	增益	频率	效率	增益	频率	效率	增益	
700	-9.43	-7.26	1800	-5.46	-2.21	2310	-5.04	0.66	
710	-8.67	-6.45	1810	-5.52	-2.23	2320	-5.26	0.47	
720	-8.07	-5.83	1820	-5.60	-2.27	2330	-5.54	0.36	
730	-7.53	-5.11	1830	-5.71	-2.27	2340	-5.79	0.15	
740	-7.56	-4.93	1840	-5.81	-2.24	2350	-6.05	-0.13	
750	-7.86	-5.01	1850	-5.79	-2.24	2360	-6.21	-0.39	
760	-8.40	-5.37	1860	-5.70	-2.19	2370	-6.34	-0.89	
770	-9.08	-5.97	1870	-5.69	-2.15	2380	-6.48	-1.56	
780	-9.85	-6.68	1880	-5.71	-2.18	2390	-6.54	-2.22	
790	-10.67	-7.47	1890	-5.70	-1.95	2400	-6.54	-2.33	
800	-11.55	-8.32	1900	-5.68	-1.70	2410	-6.41	-1.88	
			1910	-5.66	-1.31	2420	-6.23	-1.46	
820	-10.45	-7.53	1920	-5.62	-1.15	2430	-6.07	-0.94	
830	-10.29	-7.26	1930	-5.50	-0.92	2440	-5.88	-0.41	
840	-9.84	-6.72	1940	-5.30	-0.71	2450	-5.78	-0.09	
850	-9.42	-6.19	1950	-5.25	-0.64	2460	-5.70	-0.02	
860	-9.36	-5.96	1960	-5.25	-0.65	2470	-5.73	-0.14	
870	-9.47	-5.95	1970	-5.21	-0.61	2480	-5.81	-0.40	
880	-9.68	-6.03	1980	-5.09	-0.41	2490	-5.83	-0.59	
890	-10.08	-6.30	1990	-5.05	-0.25	2500	-6.01	-1.11	
			2000	-5.04	-0.10	2510	-6.06	-1.24	
880	-11.08	-7.36	2010	-5.01	0.09	2520	-6.14	-1.50	
890	-10.34	-6.51	2020	-5.08	0.19	2530	-6.11	-1.55	
900	-9.68	-5.78	2030	-5.21	0.24	2540	-6.11	-1.54	
910	-9.20	-5.17	2040	-5.29	0.37	2550	-6.02	-1.42	
920	-9.01	-4.90	2050	-5.38	0.47	2560	-5.98	-1.44	
930	-9.26	-5.11	2060	-5.38	0.64	2570	-6.00	-1.50	
940	-9.66	-5.52	2070	-5.40	0.57	2580	-5.97	-1.52	
950	-10.38	-6.28	2080	-5.51	0.38	2590	-5.91	-1.62	
960	-11.22	-7.16	2090	-5.56	0.44	2600	-5.81	-1.60	
			2100	-5.59	0.27	2610	-5.63	-1.67	
1710	-6.06	-1.64	2110	-5.64	0.17	2620	-5.52	-1.74	
1720	-6.00	-1.69	2120	-5.73	0.14	2630	-5.39	-1.82	
1730	-5.93	-1.74	2130	-5.76	0.11	2640	-5.36	-1.95	
1740	-5.87	-1.79	2140	-5.85	-0.07	2650	-5.38	-2.02	
1750	-5.80	-1.85	2150	-5.97	-0.34	2660	-5.48	-2.23	
1760	-5.74	-1.90	2160	-6.12	-0.66	2670	-5.45	-2.30	
1770	-5.68	-1.95	2170	-6.33	-1.19	2680	-5.41	-2.38	
1780	-5.61	-2.00				2690	-5.33	-2.30	
1790	-5.46	-2.05	2300	-5.07	0.59	2700	-5.22	-2.36	



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6.7 Efficiency-ANT4

频率	效率	增益	频率	效率	增益	频率	效率	增益
700	-8.28	-4.95	1810	-4.95	-1.96	2300	-4.37	0.31
710	-7.84	-4.39	1820	-5.12	-2.26	2310	-4.67	0.08
720	-7.74	-4.21	1830	-5.41	-2.72	2320	-4.83	0.00
730	-7.47	-3.85	1840	-5.46	-2.80	2330	-5.05	-0.07
740	-8.10	-4.43	1850	-5.34	-2.78	2340	-4.80	0.25
750	-9.09	-5.36	1860	-5.27	-2.74	2350	-4.60	0.49
760	-10.48	-6.71	1870	-5.17	-2.59	2360	-4.52	0.66
770	-11.57	-7.83	1880	-5.38	-2.48	2370	-4.40	0.90
780	-11.82	-8.14	1850	-4.01	-1.44	2380	-4.22	1.31
790	-12.24	-8.71	1860	-3.93	-1.40	2390	-4.29	1.35
800	-14.01	-10.61	1870	-3.79	-1.21	2400	-4.42	1.34
			1880	-3.89	-0.99	2410	-4.58	1.18
820	-8.72	-5.47	1890	-4.08	-0.74	2420	-4.66	1.17
830	-7.43	-4.21	1900	-4.05	-0.45	2430	-4.86	1.08
840	-7.36	-4.18	1910	-3.88	-0.06	2440	-4.93	0.99
850	-7.91	-4.73	1920	-4.06	-0.11	2450	-4.96	1.01
860	-8.42	-5.17	1930	-4.20	-0.23	2460	-4.87	1.30
870	-9.17	-5.84	1940	-4.49	-0.68	2470	-4.81	1.32
880	-10.70	-7.17	1950	-4.57	-0.98	2480	-4.90	1.42
890	-11.99	-8.43	1960	-4.54	-1.29	2490	-4.89	1.56
			1970	-4.64	-1.77	2500	-4.92	1.50
880	-8.00	-4.47	1980	-4.81	-1.88	2510	-5.10	1.24
890	-7.34	-3.78	1990	-4.79	-1.67	2520	-5.32	1.03
900	-7.33	-3.68	2000	-4.83	-1.60	2530	-5.33	0.95
910	-7.69	-3.98	2010	-4.74	-1.50	2540	-5.18	0.92
920	-8.23	-4.53	2020	-4.83	-1.62	2550	-5.07	1.03
930	-8.63	-4.89	2030	-4.81	-1.70	2560	-5.06	1.17
940	-9.30	-5.44	2040	-5.12	-2.16	2570	-5.00	1.13
950	-10.44	-6.57	2050	-5.21	-2.52	2580	-4.92	1.02
960	-11.09	-7.23	2060	-5.19	-2.51	2590	-4.98	0.86
			2070	-5.27	-2.61	2600	-5.08	0.40
1710	-5.43	-0.92	2080	-5.35	-2.76	2610	-5.10	0.17
1720	-4.83	-0.49	2090	-5.27	-2.60	2620	-5.25	-0.46
1730	-4.68	-0.56	2100	-5.12	-2.49	2630	-5.50	-1.07
1740	-4.74	-0.89	2110	-4.92	-2.26	2640	-5.59	-1.40
1750	-4.74	-1.10	2120	-4.73	-2.14	2650	-5.63	-1.26
1760	-4.69	-1.22	2130	-4.56	-1.92	2660	-5.77	-1.40
1770	-4.73	-1.41	2140	-4.54	-1.90	2670	-5.69	-1.23
1780	-4.66	-1.45	2150	-4.64	-1.99	2680	-5.59	-0.93
1790	-4.75	-1.67	2160	-4.77	-2.10	2690	-5.68	-1.00
1800	-5.00	-1.94	2170	-4.69	-1.85	2700	-5.70	-1.08



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6.7 Efficiency-ANT6									
频率	效率	增益	频率	效率	增益				
1550	-5.0	-2.0	5000	-5.1	0.1				
1555	-5.0	-2.0	5050	-5.3	0.1				
1560	-5.0	-2.0	5100	-5.3	0.2				
1565	-5.0	-2.0	5150	-6.0	0.1				
1570	-5.0	-2.0	5200	-5.5	0.1				
1575	-5.1	-2.1	5250	-5.1	0.0				
1580	-5.2	-2.1	5300	-4.7	0.1				
1585	-5.3	-2.2	5350	-4.2	0.1				
1590	-5.4	-2.4	5400	-3.8	0.1				
1595	-5.6	-2.6	5450	-4.3	0.2				
1600	-5.8	-2.8	5500	-4.1	-0.1				
2400	-4.6	-0.5	5550	-3.8	0.1				
2420	-4.4	-1.0	5600	-4.2	0.0				
2440	-4.4	-1.0	5650	-4.0	0.0				
2460	-4.4	-1.1	5700	-3.8	0.1				
2480	-4.5	-1.1	5750	-4.0	0.1				
2500	-4.8	-1.2	5800	-4.3	-0.1				
			5850	-4.5	0.0				
			5900	-5.0	0.1				
			5950	-6.9	0.1				
			6000	-6.9	0.0				