Approval sheet

ZoomSmart project	A1005 ANT4
ZoomSmart P/N	0101020355
Supplier name	Suzhou Huimi Communication Technology Co.，Ltd
Supplier P/N	HM0237-ANT4
Sample signing date	

	Function ☐	Drawing ☐	Measurement report ☐	Material report ☐	Reliability test report ☐	Packing ☐
Supplier	Producer	ME	RF	BD	QC	
ZoomSmart	ME	RF	PD	PM	QC	

Note: heads of departments must manually sign for confirmation

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1. Summary

This is the ANT4 antenna approval sheet

Working band :

699-960MHz，1710-2690MHz，3300-3800MHz，4400-5000MHz

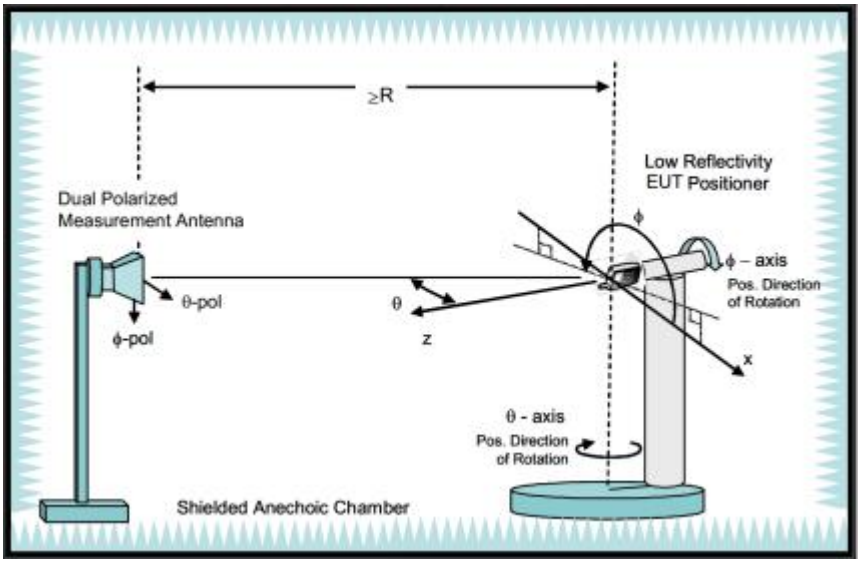
2. Antenna Structure

FPC+cable

3.Device Conditions

Picture 1 A1005 mobile phone photograph

4.Test Environment



Picture 2 Test Environment photo

5.Antenna Test Results

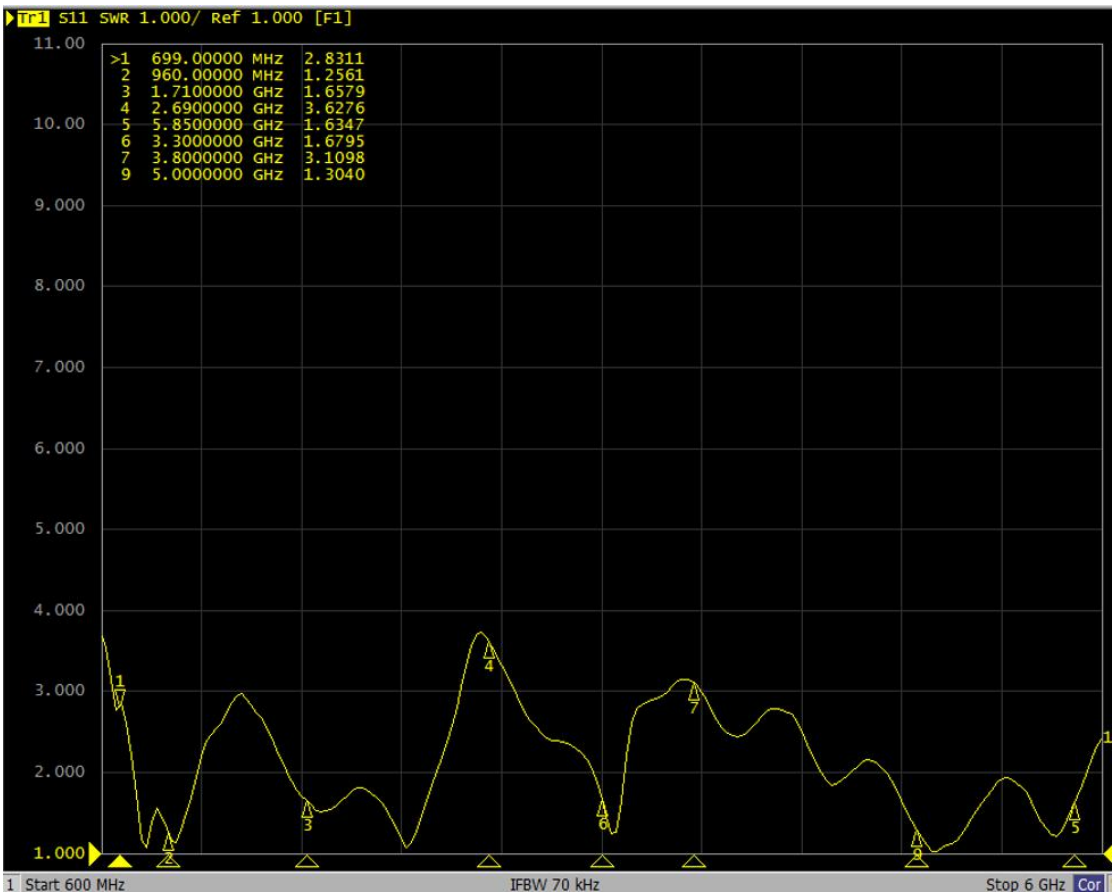
5.1 Antenna Photos

Picture 3 ANT4 antenna photograph

5.2 Antenna Matching

No matching

5.3 Passive VSWR



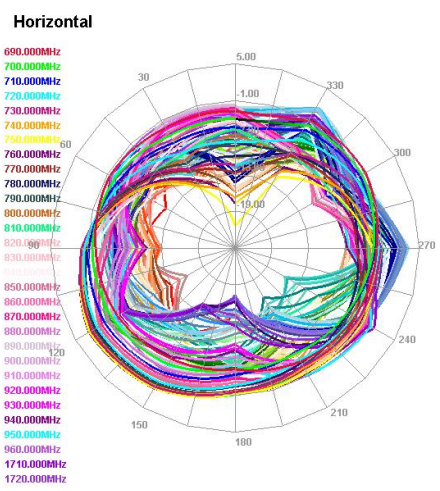
Picture 4 ANT4 antenna VSWR

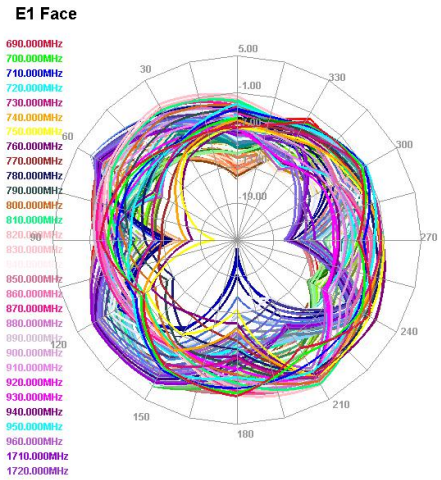
5.4 Passive Efficiency

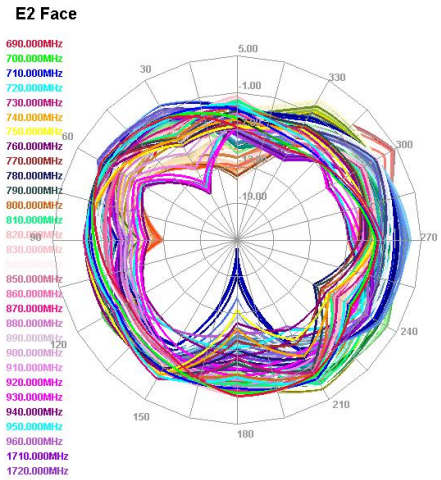
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
690	54.63	2.24	1890	51.85	2.6	2350	49.87	3.21	3520	33.59	0.73
700	52.49	2.1	1900	49.65	2.54	2360	46.81	2.93	3540	37.1	1.25
710	55.35	2.12	1910	48.83	2.56	2370	46.17	2.86	3560	41.51	1.95
720	57.19	1.79	1920	56.82	3.21	2380	44.47	2.63	3580	41.57	2.36
730	55.27	1.91	1930	59.48	3.28	2390	39.49	1.93	3600	41.5	2.86
740	46.91	1.89	1940	58.8	2.93	2400	39.16	1.78	3620	37.14	2.53
750	49.44	2.37	1950	56.85	2.28	2410	39.43	1.78	3640	43.89	3.27
760	51.52	2.47	1960	61.48	2.3	2420	40.37	1.97	3660	40.4	2.75
770	52.37	2.07	1970	57.41	2.36	2430	39.64	2.02	3680	42.64	2.81
780	48.67	1.18	1980	56.66	2.65	2440	38.03	1.92	3700	41.81	2.39
790	54.31	1.45	1990	58.89	3.15	2450	39.63	2.16	3720	45.7	2.45
800	55.55	1.6	2000	53.25	3.03	2460	40.83	2.37	3740	42.8	1.7
810	58.65	2.21	2010	52.05	3.25	2470	43.41	2.68	3760	45.61	1.92
820	56.02	2.12	2020	45.28	2.95	2480	44.29	2.81	3780	37.72	1.1
830	61.38	2.45	2030	42.14	2.82	2490	40.24	2.29	3800	37.23	1.01
840	55.44	1.99	2040	43.3	2.94	2500	38.19	1.94	4400	27.61	0.34
850	51.68	1.69	2050	42.76	2.75	2510	43.65	2.35	4420	26.1	-0.12
860	54.63	1.93	2060	43.15	2.62	2520	44.97	2.24	4440	26.01	-0.59
870	54.83	1.97	2070	44.91	2.72	2530	45.25	2.16	4460	22	-1.46
880	47.55	1.44	2080	45.35	2.78	2540	41.34	1.85	4480	25.03	-1.15
890	51.49	1.9	2090	48.43	3.11	2550	36.52	1.39	4500	23.83	-1.54
900	44.7	1.33	2100	51.56	3.36	2560	35.26	1.3	4520	23.33	-1.83
910	38.26	0.68	2110	51.38	3.28	2570	35.98	1.45	4540	29.48	-0.85
920	34.94	0.7	2120	54.87	3.38	2580	35.32	1.31	4560	30.48	-0.77
930	33.98	0.63	2130	56.33	3.16	2590	40.73	1.85	4580	34.65	0.04
940	33.04	0.16	2140	53.48	2.63	2600	43.95	2.08	4600	36.43	0.34
950	37.91	0.54	2150	56.23	2.82	2610	44.73	2.03	4620	32.54	-0.45
960	37.97	0.11	2160	60.13	3.1	2620	46.33	1.97	4640	36.31	-0.16
1710	60.03	2.77	2170	63.36	3.17	2630	49.95	2.31	4660	32.34	-0.83
1720	57.01	2.4	2180	62.06	2.95	2640	47.71	2.21	4680	32.86	-0.48
1730	54.32	1.85	2190	58.24	2.88	2650	52.22	2.71	4700	35.21	-0.39
1740	53.62	2.06	2200	58.01	3.07	2660	56.57	3.51	4720	32	-0.56
1750	53.84	2.22	2210	59.12	3.33	2670	58.73	4.01	4740	35.07	-0.28
1760	54.54	1.89	2220	55.87	3.19	2680	62.56	4.42	4760	36.13	0.11
1770	56.62	1.83	2230	53.79	2.97	2690	63.1	4.47	4780	38.11	0.45
1780	54.6	1.89	2240	53.83	2.75	2700	60.75	4.13	4800	40.72	0.9
1790	53.07	2.05	2250	55.48	2.58	3300	55.67	2.41	4820	37.71	0.3
1800	52.98	2.27	2260	56.47	2.42	3320	59.79	2.38	4840	38.18	0.58
1810	50.18	2.14	2270	56.26	2.37	3340	58.59	2.36	4860	36.97	0.17
1820	50.95	2.19	2280	58.23	2.59	3360	59.84	2.35	4880	38.61	0.02
1830	51.09	2.07	2290	58.7	2.83	3380	56.62	2.14	4900	39.77	-0.21
1840	54.81	2.22	2300	56.87	2.93	3400	50.49	1.95	4920	36.56	-0.58
1850	59.32	2.6	2310	55.48	3	3420	41.15	0.95	4940	42.95	-0.3
1860	44.62	1.7	2320	55.65	3.19	3440	28.04	-0.46	4960	44.18	-0.1
1870	49.92	2.33	2330	52.86	3.15	3460	19.27	-2.5	4980	45.09	0.01
1880	55.56	2.84	2340	50.82	3.16	3480	18.6	-2.95	5000	49.8	0.53

5.5 Radiation Pattern

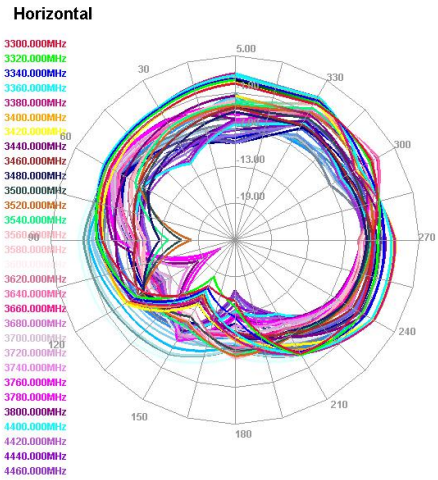
699-960MHz，1710-2690MHz

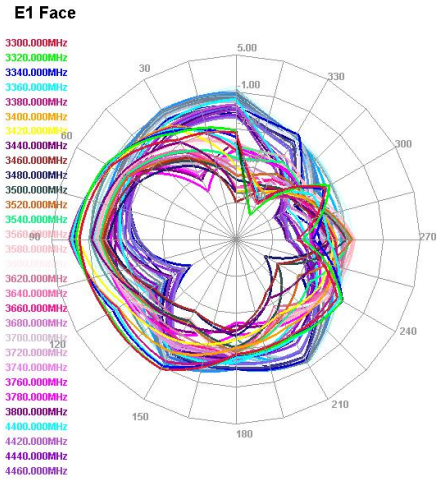


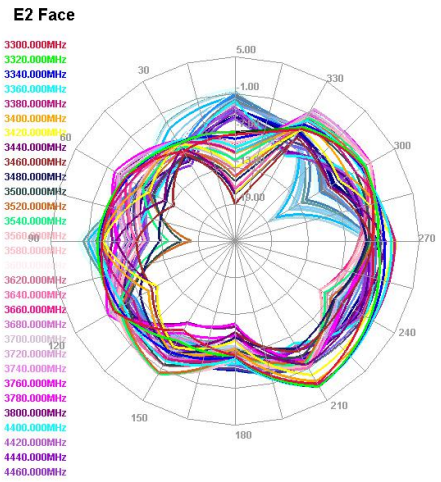




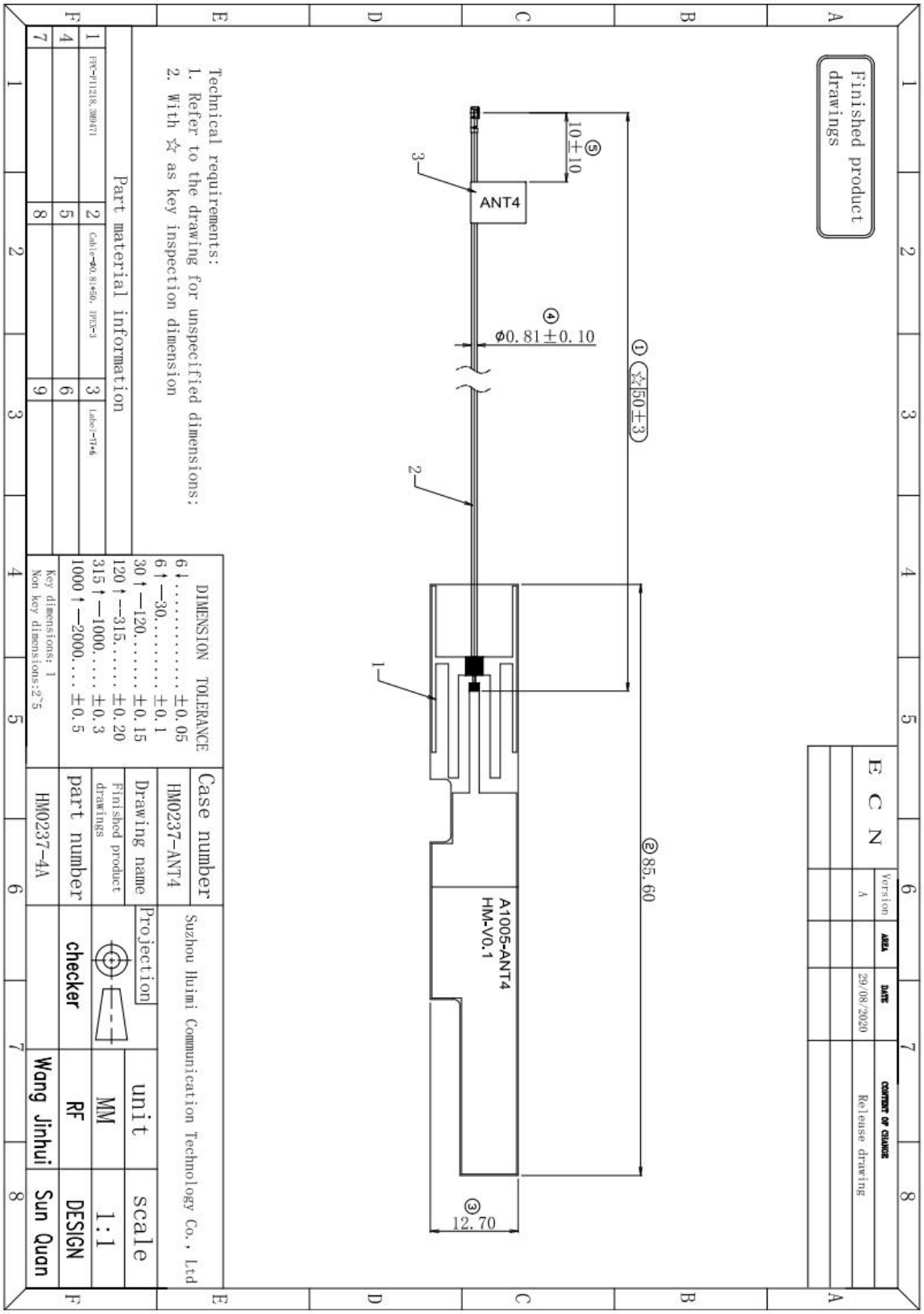
3300-3800MHz，4400-5000MHz







6. Mechanical Drawings



7. Dimension Report

Suzhou Huimi Communication Technology Co., Ltd Dimension Report														
Customer			ZoomSmart			Project Name		A1005		version umber		A		
Supplier P/N			HM0237			ANT Name		ANT4		Date		2022/8/29		
No	Nature	NOMINAL	tolerance		Inspection Method	Sample Number						OK/NG	Remarks	
			+TOL	-TOL		1	2	3	4	5				
1	*	50.00	3	3		49.00	50.00	50.00	50.50	50.00		OK		
2		85.60	0.2	0.2		85.66	85.62	85.68	85.61	85.63		OK		
3		12.70	0.2	0.2		12.79	12.73	12.75	12.75	12.71		OK		
4		0.81	0.1	0.1		0.81	0.81	0.81	0.81	0.81		OK		
5		10.00	10	10		15.00	15.00	15.00	15.00	15.00		OK		