

Antenna Test Report (Passive-BW)

Date: 2019/8/9

Manufacturer	ShenZhenShi NewStone Technology co., Ltd
Address	B2 blvd, YuHong Industrial Park, No.20, XingYe West Road, ShaJing Town,
Model name	YG420/2.4G/5.8G-1-TP
maximum gain	1.86dBi

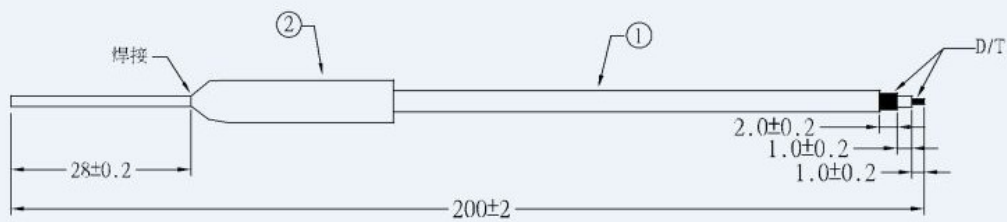
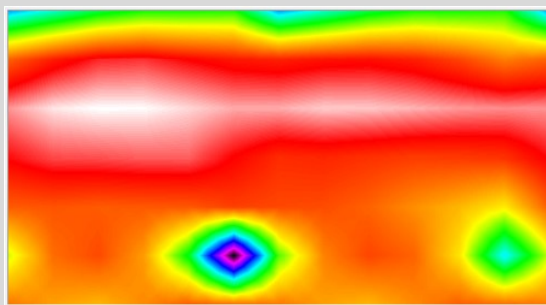
Test Point	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)	Efficiency (dB)	Max (dBm)	Theta of Max	Phi of Max	Min (dBm)	Theta of Min	Phi of Min	AVG (dBm)	Max/Min (dB)	Max/AVG (dB)	Min/AVG (dB)
1	2400.0	2400.00	1.30	3.52	60.0%	-2.22	1.30	60	60	-21.13	150	150	-2.53	22.43	3.83	-18.60
2	2450.0	2450.00	1.86	3.56	67.7%	-1.69	1.86	60	90	-15.32	150	330	-1.92	17.19	3.79	-13.40
3	2500.0	2500.00	1.09	2.76	68.1%	-1.67	1.09	90	90	-17.15	150	120	-2.80	18.24	3.89	-14.35

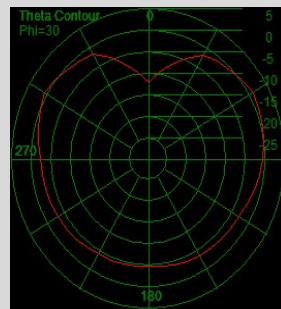
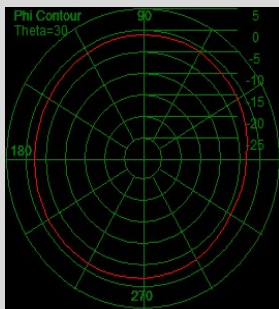
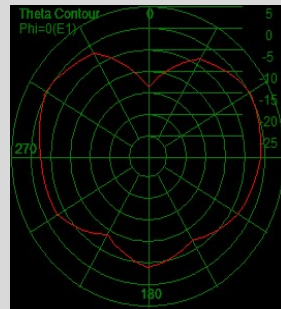
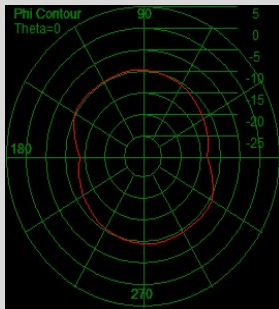
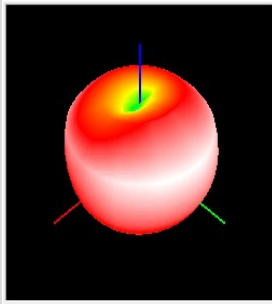
Passive -Freq2400.00MHZ

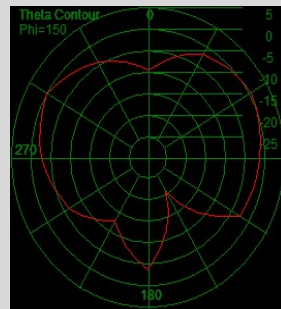
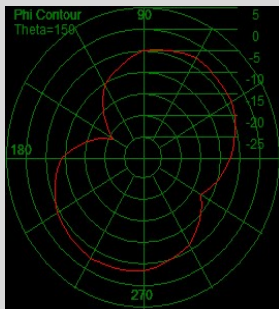
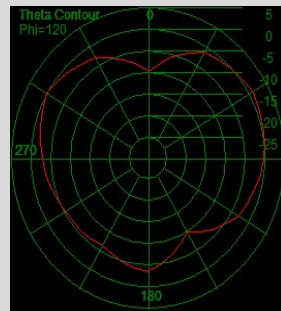
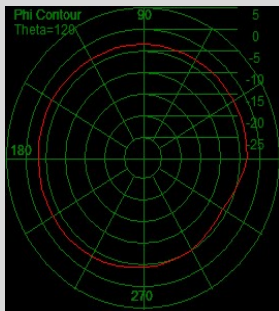
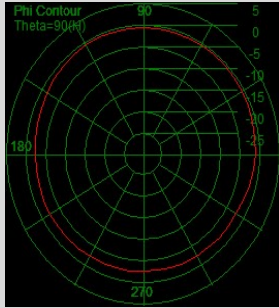
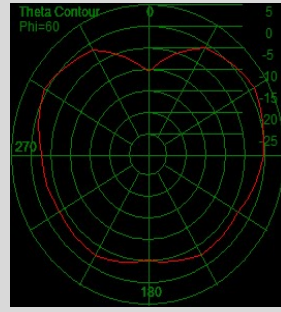
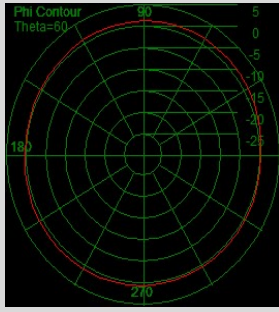
H+V Total (30° Step)	Angle (°)														
	0	30	60	90	120	150	180	210	240	270	300	330	360		
0	-13.80	-12.22	-10.62	-9.75	-9.74	-9.61	--	--	--	--	--	--	--	--	
30	-3.66	-2.14	-1.13	-0.98	-1.54	-2.03	-2.23	-1.94	-1.84	-2.20	-3.03	-4.28	--	--	
60	0.11	1.02	1.30	1.27	0.85	0.34	0.36	0.72	0.68	0.44	0.16	0.03	--	--	
90	-1.42	-0.73	-0.66	-0.50	-0.49	-1.56	-2.48	-2.35	-2.62	-2.85	-2.79	-2.62	--	--	
120	-3.54	-3.36	-3.53	-3.48	-3.43	-2.93	-3.11	-3.18	-3.70	-4.69	-5.56	-6.75	--	--	
150	-7.64	-3.91	-3.14	-4.96	-10.21	-21.13	-9.00	-4.39	-3.05	-3.70	-6.59	-12.93	--	--	
180	-4.15	-5.04	-5.52	-4.55	-3.59	-3.98	--	--	--	--	--	--	--	--	

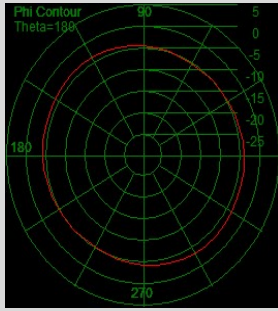
H (30° Step)	Angle (°)														
	0	30	60	90	120	150	180	210	240	270	300	330	360		
0	-15.78	-13.65	-12.40	-12.77	-15.01	-17.51	--	--	--	--	--	--	--	--	
30	-4.80	-3.58	-2.04	-1.59	-2.41	-3.34	-3.72	-3.09	-2.47	-2.65	-3.71	-5.02	--	--	
60	-0.60	0.36	0.71	0.59	0.14	-0.37	-0.32	0.26	0.38	0.18	-0.14	-0.40	--	--	
90	-1.50	-0.86	-0.70	-0.53	-0.66	-1.75	-2.63	-2.66	-2.83	-2.85	-2.83	-2.63	--	--	
120	-4.34	-4.04	-4.13	-3.94	-3.87	-3.68	-3.70	-3.78	-4.25	-4.94	-5.58	-7.02	--	--	
150	-18.95	-12.05	-6.84	-6.42	-10.69	-26.94	-14.89	-10.19	-5.91	-4.62	-6.76	-13.19	--	--	
180	-16.49	-15.67	-17.25	-14.70	-11.66	-13.43	--	--	--	--	--	--	--	--	

V (30° Step)	Angle (°)														
	0	30	60	90	120	150	180	210	240	270	300	330	360		
0	-18.18	-17.74	-15.34	-12.75	-11.27	-10.38	--	--	--	--	--	--	--	--	
30	-10.00	-7.63	-8.38	-9.81	-8.98	-7.87	-7.61	-8.25	-10.57	-12.26	-11.44	-12.34	--	--	
60	-8.13	-7.53	-7.65	-7.16	-7.32	-7.87	-8.00	-9.26	-11.06	-12.00	-11.73	-10.24	--	--	
90	-18.88	-15.91	-20.69	-23.07	-14.71	-15.40	-17.13	-14.07	-15.91	-33.20	-22.93	-28.79	--	--	
120	-11.27	-11.79	-12.42	-13.44	-13.58	-10.95	-12.06	-12.03	-12.94	-17.18	-30.70	-19.06	--	--	
150	-7.97	-4.63	-5.55	-10.40	-20.07	-22.45	-10.30	-5.71	-6.22	-10.87	-20.70	-25.19	--	--	
180	-4.41	-5.44	-5.82	-4.99	-4.33	-4.50	--	--	--	--	--	--	--	--	







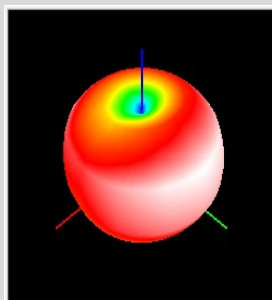
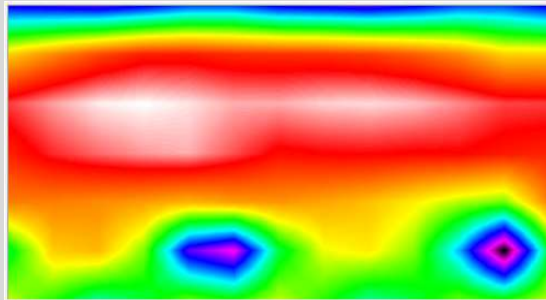


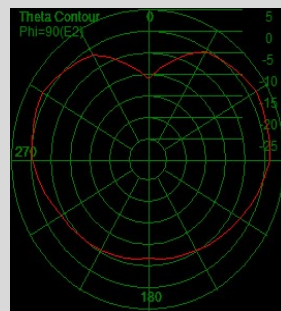
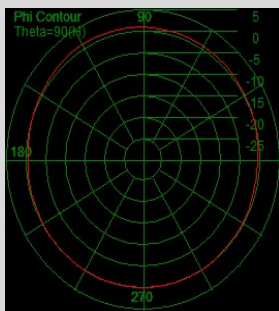
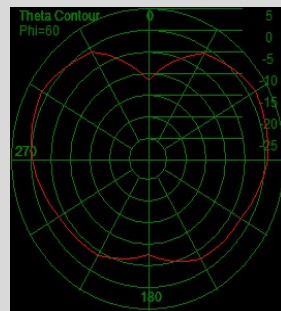
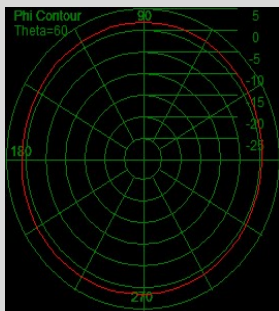
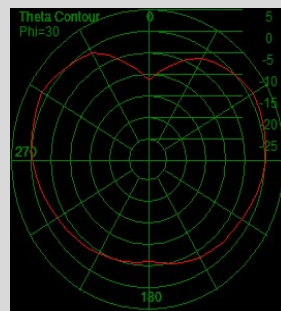
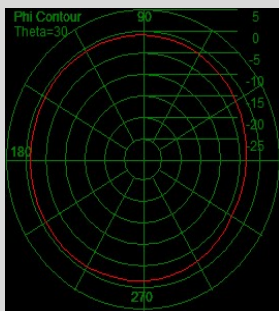
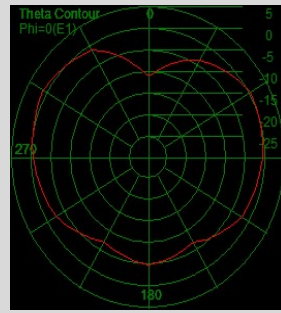
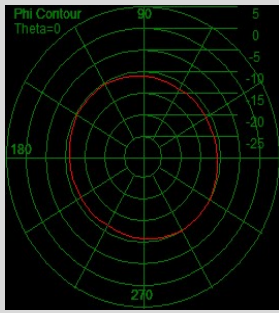
Passive -Freq2450.00MHZ

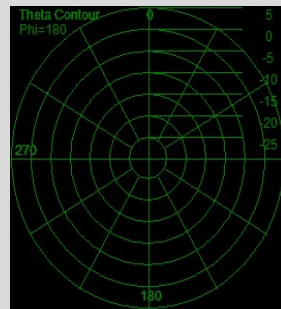
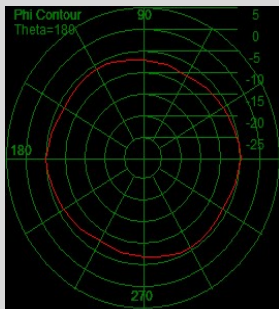
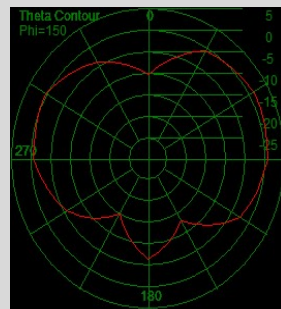
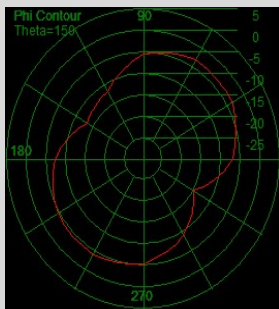
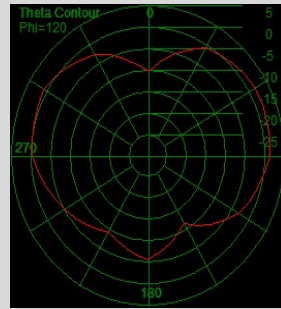
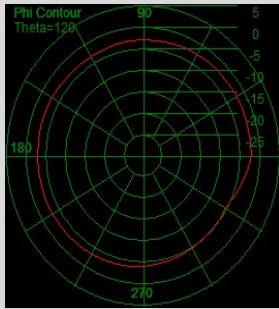
		0	30	60	90	120	150	180	210	240	270	300	330	360
H+V Total (30° Step)	0	-11.24	-11.48	-11.75	-11.21	-10.44	-10.44	--	--	--	--	--	--	--
	30	-3.83	-2.61	-1.53	-0.77	-0.72	-0.99	-1.07	-1.10	-1.32	-1.81	-2.58	-3.82	--
	60	0.19	1.06	1.70	1.86	1.62	1.16	1.15	1.46	1.56	1.36	0.87	0.27	--
	90	-0.85	0.07	0.60	1.00	1.16	0.38	-0.45	-0.28	-0.22	-0.34	-0.31	-0.68	--
	120	-2.39	-2.43	-2.64	-2.92	-3.32	-2.94	-2.79	-3.10	-3.53	-4.34	-5.23	-5.75	--
	150	-7.14	-3.77	-3.42	-5.67	-11.79	-13.30	-7.33	-4.70	-4.31	-5.64	-9.50	-15.32	--
	180	-5.15	-6.42	-7.89	-7.18	-5.93	-6.66	--	--	--	--	--	--	--

		0	30	60	90	120	150	180	210	240	270	300	330	360
H (30° Step)	0	-14.68	-13.64	-13.16	-13.83	-16.76	-22.20	--	--	--	--	--	--	--
	30	-4.60	-3.77	-2.29	-1.20	-1.22	-1.71	-1.89	-1.76	-1.68	-2.01	-2.74	-3.93	--
	60	-0.23	0.68	1.40	1.51	1.30	0.91	0.92	1.30	1.47	1.28	0.72	-0.02	--
	90	-0.86	0.02	0.53	0.89	0.93	0.10	-0.74	-0.61	-0.40	-0.37	-0.36	-0.69	--
	120	-3.10	-3.06	-3.10	-3.20	-3.50	-3.31	-3.08	-3.36	-3.77	-4.49	-5.31	-6.06	--
	150	-18.46	-13.56	-8.24	-7.61	-12.81	-15.66	-12.46	-13.92	-9.65	-7.83	-10.75	-18.68	--
	180	-13.57	-12.40	-13.55	-13.81	-12.12	-13.90	--	--	--	--	--	--	--

		0	30	60	90	120	150	180	210	240	270	300	330	360
V (30° Step)	0	-13.86	-15.54	-17.34	-14.66	-11.59	-10.73	--	--	--	--	--	--	--
	30	-11.68	-8.93	-9.44	-11.03	-10.33	-9.12	-8.70	-9.60	-12.25	-15.38	-16.86	-19.78	--
	60	-10.13	-9.79	-10.02	-9.21	-9.94	-11.33	-11.74	-13.14	-15.06	-15.93	-13.83	-11.67	--
	90	-31.95	-19.50	-17.39	-14.76	-11.62	-11.65	-12.34	-11.57	-14.09	-21.76	-20.19	-26.48	--
	120	-10.57	-11.09	-12.64	-14.97	-17.30	-13.73	-14.78	-15.36	-16.33	-19.01	-22.65	-17.47	--
	150	-7.48	-4.25	-5.16	-10.10	-18.60	-17.09	-8.92	-5.25	-5.81	-9.64	-15.53	-18.01	--
	180	-5.83	-7.68	-9.27	-8.24	-7.12	-7.57	--	--	--	--	--	--	--







Passive -Freq2500.00MHZ

		0	30	60	90	120	150	180	210	240	270	300	330	360
H+V Total (30° Step)	0	-13.60	-15.22	-15.84	-13.70	-12.25	-12.42	--	--	--	--	--	--	--
	30	-6.39	-5.76	-4.67	-3.68	-3.05	-3.06	-2.97	-2.94	-3.13	-3.52	-4.18	-5.34	--
	60	-1.32	-0.38	0.16	0.30	0.10	-0.38	-0.56	-0.19	0.04	-0.07	-0.78	-1.59	--
	90	-1.32	0.23	0.92	1.09	0.94	0.10	-0.66	-0.53	-0.57	-0.89	-0.99	-1.32	--
	120	-1.30	-1.06	-1.26	-1.58	-1.97	-2.15	-2.45	-2.71	-3.06	-3.58	-4.05	-3.91	--
	150	-8.49	-6.50	-7.51	-11.80	-17.15	-8.90	-5.90	-4.82	-4.95	-6.24	-8.14	-8.74	--
	180	-6.37	-7.76	-9.77	-10.19	-9.80	-10.77	--	--	--	--	--	--	--

		0	30	60	90	120	150	180	210	240	270	300	330	360
H (30° Step)	0	-14.72	-15.63	-15.94	-15.76	-18.01	-23.85	--	--	--	--	--	--	--
	30	-6.78	-6.47	-5.36	-4.24	-3.72	-3.84	-3.75	-3.62	-3.58	-3.81	-4.40	-5.51	--
	60	-1.47	-0.52	0.08	0.23	0.05	-0.42	-0.64	-0.26	0.01	-0.08	-0.79	-1.65	--
	90	-1.46	0.01	0.65	0.85	0.68	-0.26	-1.15	-1.10	-0.92	-0.99	-1.02	-1.39	--
	120	-1.99	-1.74	-1.75	-1.87	-2.11	-2.32	-2.60	-2.77	-3.07	-3.59	-4.15	-4.36	--
	150	-12.08	-17.01	-22.90	-19.85	-22.59	-9.94	-7.59	-8.16	-7.80	-7.96	-9.62	-9.61	--
	180	-17.83	-15.65	-16.74	-17.83	-16.35	-17.92	--	--	--	--	--	--	--

		0	30	60	90	120	150	180	210	240	270	300	330	360
V (30° Step)	0	-20.01	-25.61	-32.33	-17.94	-13.59	-12.74	--	--	--	--	--	--	--
	30	-17.11	-13.96	-12.96	-12.79	-11.48	-10.88	-10.80	-11.29	-13.17	-15.36	-17.08	-19.48	--
	60	-16.04	-15.40	-17.26	-17.92	-19.64	-20.49	-18.23	-18.44	-21.26	-25.91	-25.59	-20.32	--
	90	-16.24	-12.74	-11.41	-11.61	-11.36	-10.91	-10.44	-9.62	-11.75	-17.47	-22.83	-19.42	--
	120	-9.58	-9.46	-10.98	-13.47	-16.91	-16.14	-17.40	-21.07	-28.65	-29.67	-20.27	-13.91	--
	150	-11.00	-6.90	-7.64	-12.54	-18.61	-15.64	-10.82	-7.53	-8.13	-11.09	-13.54	-16.18	--
	180	-6.69	-8.53	-10.75	-11.01	-10.89	-11.70	--	--	--	--	--	--	--

